

Parris N. Glendening Governor

James W. Peck Director

October 7, 2000

Mr. Frank Hamons, Manager Harbor Development Maryland Port Administration The Maritime Center II 2310 Broening Highway Baltimore, Maryland 21224-6621



Re:

MPA Contract No. 500912P - Furnace Bay Groundwater Assessment and Modeling Report

Dear Mr. Hamons:

The Maryland Environmental Service (MES) herewith submits six (6) copies of the report entitled "Stancill's Inc. Furnace Bay Site Groundwater Assessment and Modeling Report." The report is in two volumes. Volume one consists of the technical report and Appendix A. Volume 2 consists of Appendices B through F.

If you have any questions regarding the report, or wish to schedule a meeting to discuss the report, please contact me in Annapolis at (410) 974-7295.

Sincerely,

William E. Chicca

Director,

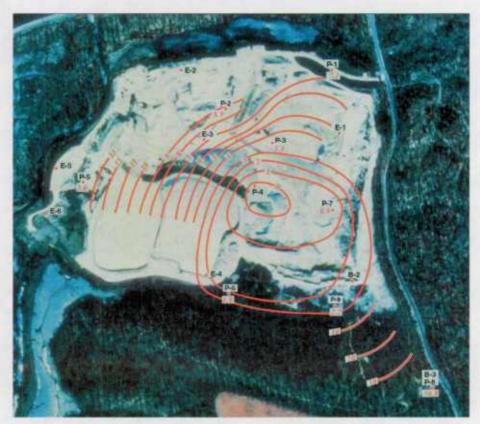
Program Development and

Engineering Support

Enclosures:

cc: Robert Miller, Esq. Wayne Young

STANCILL'S INC. FURNACE BAY SITE GROUNDWATER ASSESSMENT AND MODELING REPORT



Prepared For:



Maryland Port Administration The Maritime Center II 2310 Broening Highway Baltimore, Maryland 21224-6621

Prepared By:



Maryland Environmental Service 2011 Commerce Park Drive Annapolis, Maryland 21401

Volume 1 of 2

October 2002

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1.0 Executive Summary and Conclusions

Stancill's Inc. is an active sand, gravel and earthen materials mining and processing facility located in Cecil County at 499 Mountain Hill Road, Perryville, Maryland 21903. The approximately 130-acre site is situated in the western part of Cecil County, adjacent to Principio Creek at the junction of Principio Creek and Furnace Bay.

In 2000, the site was the subject of a preliminary assessment to evaluate the feasibility of using the property as an upland containment site for dredged material from the Upper Bay channels. That study found that if the quarry were mined to the maximum extent proposed, which involves continued excavation to a maximum depth of -70ft below mean sea level, the site has the potential to provide up to 9.6 million cubic yards (MCY) of air space capacity if filled to elevation +90. Information was not available as to the quantity of air space available on the site based upon the topography at the time of the study.

At an annual average rate for maintenance dredging in the Upper Bay channels (400,000 CY per year), the 9.6 MCY of potential air space capacity could potentially provide 34 years of service. Preliminary cost estimates for material placement using hydraulic and mechanical placement means was approximately \$12.23 and \$19.82 per cubic yard, respectively. The previous report indicates that each potential method of dredged material placement would be logistically challenging.

The preliminary study of the site shows the site to be underlain by layers of sandy material, gravels and clays in variable thickness. Depths to the top of the bedrock ranged from about 40 feet to about 100 feet. Soil tests indicate that the in-place permeability of the Claey Silt / Sandy Silt deposits beneath the site to be in the range of 10⁻⁶ cm/sec. Groundwater in the pit area was found about 2 feet beneath the quarry floor. The preliminary hydrogeologic assessment shows the direction of groundwater flow in the area to be in a southwesterly direction, towards Principio Creek and Furnace Bay. Within the immediate vicinity of the site, groundwater flow is in a radial pattern, flowing into the quarry, where areas have been excavated to below the water level in the adjacent surface waters. A survey of wells in the vicinity showed that a total of 17 wells have been permitted within a one-half mile radius of the quarry, (two of which have not been built). One of the identified wells is located on the Stancill property and provides potable and sanitary water for site office activities. None of the off-site wells were found to be downgradient of the property. Because of their location and low yields, the previous study concludes that placement of clean dredged material from the Upper Bay channels at the site would pose little risk to contamination to existing or permitted potable wells in the vicinity. However, the report recommended additional groundwater study to characterize current groundwater conditions and to determine the potential effects of placement of dredged material in the site on groundwater flow direction in the area and groundwater quality.

To better define potential groundwater effects as a result of placement of dredged material in the site, MPA contracted with MES to conduct additional studies. The purpose of the studies is to define current groundwater conditions in the area, including groundwater flow direction and water quality and to predict potential impacts on groundwater flow direction and water quality that may result from placement of dredged material at the site. MES contracted with KCE Engineering and URS Corporation to provide technical and engineering assistance in conducting the studies.

KCE Engineering was contracted to develop a current topographic survey of the site, to install a pumping well and piezometers at selected locations on the site and to collect representative groundwater samples for testing in a commercial laboratory. KCE Engineering was also tasked with monitoring groundwater levels in the newly installed well / piezometers over a six-month time period. In the field, the well, which was drilled into bedrock, failed to produce water. Therefore, the well was converted to a piezometer. A continuous water level recorder was installed in one piezometer, and monthly readings were collected from the remaining piezometers. KCE Engineering also performed tests to determine aquifer physical and chemical characteristics, including vertical and horizontal permeability of the soils within the perimeter buffer area. The information would then be used in developing and calibrating the groundwater model of the area.

In addition, KCE Engineering reviewed regulatory files and developed a comprehensive inventory of permitted wells that have been installed in the vicinity of the Stancill site. A total of 158 permitted wells were identified in an area surrounding the Stancill site. The area extends 2 miles north and south of the center of the Stancill site, and 1 mile east and west. KCE Engineering also obtained well completion reports for the wells to determine the geology of the well locations. None of the wells, with the exception of the potable well installed on the site to provide water for sanitary purposes, are located immediately downgradient of the site.

URS Corporation was contracted to develop and calibrate a three-dimensional groundwater flow model of the site, and then use the aquifer information and groundwater data as input to a groundwater fate and transport model. The model would then be used to predict potential changes in on groundwater flow direction and water quality that would result if clean dredged material were placed in the site. URS staff observed the installation of the monitoring well and piezometers and the collection of the groundwater samples. URS staff also performed slug tests on all of the newly installed piezometers to determine well yields.

To simulate water quality characteristics of percolate through dredged material, MES collected representative samples of dredged material from the Upper Bay region that have been deposited in the Courthouse Point dredged material containment facility located south of Chesapeake City in Cecil County. The collected dewatered dredged material was then subjected to two leaching procedures to produce simulated percolate water. Percolate water would be produced when a portion of the precipitation, which falls on the quarry site infiltrates through the dredged material. One leaching protocol that was employed is the Toxicity Characteristic Leaching Procedure (TCLP), which is the specified test protocol used to simulate leachate characteristics of solid waste to determine if the solid waste is a hazardous waste under the provisions of the Federal Resource Conservation and Recovery Act (RCRA). The results of TCLP testing are recognized as being a conservative assessment of potential leaching characteristics, due to the aggressive nature of the leaching procedure. Therefore, the resulting liquid from the TCLP test protocol is considered to be a very conservative simulation of the percolate that may be produced as precipitation passes through the dredged material. The second leaching protocol employed was conducted using deionized water Samples of percolate from both leaching procedure were submitted to a as the leaching media. commercial laboratory and analyzed to determine the concentration of specific constituents. The analytical results were then provided to URS for use as input parameters to the groundwater model.

URS Corporation used the collected data and other information to develop a conceptual geologic and hydrogeologic model of the site. The conceptual models then served as the basis for the groundwater model of the area. URS developed the model using MODFLOW, a finite-difference numerical groundwater flow model and MODPATH, a particle-tracking package used in conjunction with MODFLOW. Because of varying aquifer hydraulic properties, and the vertical/horizontal extent of the placed constituents, URS used a Modular Three-Dimensional Multispecies Transport Model (MT3D) to simulate site-specific transport and to evaluate the flow of constituents in groundwater beneath the Stancill quarry. Predictive runs were made to simulate potential transport of three indicator parameters; chloride, Total Dissolved Solids (TDS) and Iron in the groundwater that would develop after placement of dredged material at the site.

The modeling results confirm that under current excavated site conditions, the site generally serves as a groundwater sink, with radial flow of groundwater into the quarry, where it is used in the materials washing and grading operations. Model results show possible leakage from the southwest portion of the site to Principio Creek and Furnace Bay. The model indicates that when the site is filled with dredged material, the groundwater flow pattern is altered. Under filled conditions, the direction of groundwater flow is in the direction of Principio Creek and Furnace Bay, with little potential for upgradient groundwater movement. The transport model shows that constituents in groundwater will discharge into Principio Creek and Furnace Bay, which are located immediately west of the site. The model predicts that no impacts to upgradient groundwater water quality would occur as a result of placement of dredged material in the site.

The groundwater model as developed for the site includes four layers; three layers within the saprolite and the fourth layer in the bedrock. The model run simulates a 100-year time period after placement of the dredged material. To be conservative, URS elected to use the simulated percolate data derived from the TCLP leaching protocol as compared to percolate developed using the deionized water leaching procedure. The model results predict that the concentration of TDS in the groundwater within the saprolite layer after placement of dredged material would increase over time from a range of 100 to 500 mg/l to a maximum of 3,700 mg/l within the site boundaries. Chloride levels would rise from approximately 7 mg/l to 20.6 mg/l within the site boundaries, and Iron would increase from approximately 0.2 mg/l to .55 mg/l. The model predicts that these steady-state maximum concentrations would be experienced within 8 to 10 years after placement of the dredged material. The report concludes that because of the aggressive nature of the TCLP procedure, the simulated input concentrations overestimate the constituent concentrations that will be leached from Further, the model results do not consider adsorption and chemical the dredged material. precipitation of Iron and TDS as groundwater passes through the soil media, which may result in lower actual concentrations of constituents in the groundwater than predicted by the model.

Using the current site information provided by the 2002 topographic survey, MES determined that the site presently possesses an available air space capacity of 7.2 million cubic yards (MCY). This air space capacity was based upon the same berm configuration suggested by Gahagan & Bryant Associates (GBA) in the 2000 Feasibility Study of the site. This configuration includes a berm constructed to a maximum elevation of +90 feet, and the bermed area filled to that elevation. If the site was used to contain only dewatered material, berm construction is not necessary and placing and grading compacted material to a higher elevation over the site could achieve additional air space capacity. MES assumed a site configuration that placed and compacted dredged material at

3:H to 1:V slopes, with benches constructed every 30 feet of elevation over the +90 base. Under this site configuration, MES determined that the site could potentially provide up to 10.4 MCY of air space capacity. If 4:H to 1:V slopes are used, and with a maximum elevation of 148 feet, the site could provide up to 8.6 MCY of air space capacity

Based upon the results of the current site assessment and groundwater modeling effort, MES concludes the following:

- Groundwater in the vicinity of the property, under the current excavated site conditions, flows in a radial manner into the quarry site.
- Upon filling of the site with dredged material, the direction of groundwater flow in the area will change, with groundwater flowing west, in the direction of Principio Creek and Furnace Bay.
- No upgradient movement of groundwater is predicted to occur under the re-established groundwater flow regime that will develop once the site is filled with dredged material.
- With the exception of the existing production well on the site, which is used for on-site
 office and shop activities, no potable wells currently exist in the downgradient area between
 the Stancill site and Principio Creek / Furnace Bay.
- Because of the location of the site immediately proximate to Principio Creek and Furnace Bay, there is little or no probability that a potable well would be sited in the future within the downgradient area between the site and Principio Creek / Furnace Bay.
- Based upon the current site topography, the Stancill site presently offers an air space capacity of 7.2 MCY if filled to an elevation of +90, or up to 10.4 MCY of air space capacity using dewatered dredged material placed, compacted and contoured over the site to a maximum elevation of +158 feet with 3:H to 1:V slopes.
- Groundwater quality impacts in would be experienced if dredged material were placed in the site. Groundwater modeling results indicate that TDS levels in groundwater at the site are predicted to rise to a maximum expected concentration of 3,700 mg/l; chloride levels in the groundwater are predicted to rise to an expected maximum concentration of 20.6 mg/l; and Iron concentrations in groundwater are predicted to increase to an expected maximum concentration of 0.55 mg/l.
- The predicted maximum concentration of 3,700 mg/l for TDS exceeds the current SMCL standard of 500 mg/l.
- After placement of dredged material in the Furnace Bay site to a level above the elevation of groundwater in the area, any constituents leached from the dredged material that enters the groundwater will flow in the direction of and express themselves in Principio Creek and Furnace Bay.

- With the exception of the existing production well on the site, no existing upgradient or downgradient potable wells were identified that would potentially be affected by placement of dredged material in the Stancill site.
- The predicted values were obtained from the groundwater model when conservative water quality input data based upon TCLP percolate date were used as input data. Actual groundwater concentrations are expected to be less than the predicted values.
- The predicted water quality impacts to the groundwater are expected to manifest themselves within 10-years of placement of dredged material in the site.

Based upon the results of the current site assessment of the Furnace Bay property, and the groundwater flow and transport modeling effort, prospective effects to groundwater from placement of dredged material at the Stancill's Inc. site at Furnace Bay would not result in predicted conditions that would preclude the site's further consideration as a potential upland placement site for management of dredged material.

2.0 Stancill's Inc. Site at Furnace Bay

Stancill's Inc. is a commercial sand, gravel and earthen material mining facility located in Cecil County at 499 Mountain Hill Road, Perryville, Maryland 21903. The site is in the western part of Cecil County, adjacent to Principio Creek, at the point where Principio Creek flows into Furnace Bay. The site has been used for mining of earthen materials on a continuous basis since November 1972. Soil borings indicate that the site can continue to extract and process marketable material at the current rate for an additional 5 to 7 years. Additional marketable material exists on the site, but it is located in perimeter buffer areas or areas where excavation depths would increase production costs and reduce competitive marketability of the finished product. Current on-site operations include mining, washing, screening, grading and stockpiling of the various excavated materials for sale as product. Facilities are also available on-site for blending and mixing different materials to meet the specifications for a customer order. The site also has an on-site truck scale and office building. Buffer areas have been maintained along Mountain Hill Road and along the southern property boundary. Figure 2.1 is a current aerial photo of the site.

The site includes approximately 130 acres of land, approximately 100 acres of which is currently used for extraction and processing of sands, gravels, clay and other earth materials, and for the stockpiling of finished materials for marketing. The remaining portion of the site includes buffer areas to adjoining properties, Principio Creek and a wetland area between the high speed railroad tracks and the mining area. The wetland is fed by an unnamed tributary to Principio Creek, which flows across the property parallel to the railroad lines. The processed materials are commercially marketed throughout the Northeast U.S. region. The site is bordered on the west by Principio Creek, and Furnace Bay, undeveloped private land to the south; Mountain Hill Road to the East, and the high-speed railroad tracks to the North.

The site includes a series of ponds and impoundments used to contain and treat the water used in the mining and mineral processing operations. The berms were constructed exclusively from on-site materials excavated at the site. Water needed for the washing and grading of excavated materials is pumped from an on-site pond to the processing area. Effluent from the processing operations is then pumped to an upper elevation pond for removal of suspended particulates through gravity separation. No flocculents are used in the gravity separation process. Any overflow from the upper settling pond would discharge by gravity to the lower elevation pond, where the pumping facilities return the water to the processing plant. The on-site materials processing operations completely reuses all water on site. There is no discharge to surface waters of the State from the Furnace Bay site.

The fine particulates and other materials, which are produced during the materials processing operations, accumulate in the upper settling pond. A portion of this settled material is periodically removed from the upper pond by means of a dragline or excavator. This periodic removal of accumulated material from the upper pond restores its settling capacity. The removed material is marketed or placed as fill in lower elevation excavated areas on the site.

Under the provisions of the Surface Mining Permit issued by MDE, once commercial mining activities cease, reclamation of the site becomes necessary. The approved site reclamation plan includes the option of re-contouring the site using fill material. Dewatered dredged material can potentially serve as suitable fill material.



Figure 2.1 Current Aerial Photo of Stancill's Inc.

Upland placement of dredged material offers the potential to affect ground and surface waters in the vicinity, as various constituents in the material become mobilized and released to the environment. This mobilization may occur as a result of the disturbance of the sediments or as a result of chemical changes that occur as dredged materials dry out and the sulfur species oxidize. Water percolating through the dried material may become acidified by the oxidized sulfur and dissolve various constituents in the dredged material. Any site that is proposed for use as a dredged material placement site must be studied to determine the potential for adverse effects to groundwater and surface water in the area.

Soil borings conducted on the site confirm the presence of clay and other fine material beneath the Furnace Bay site. This is typical of marine deposit geologic formations found in Coastal Plain formations. Silts and clays, because of their small particle size and dense structure when compacted, have the ability to retard the flow of groundwater. The presence of such materials on the site may provide a level of protection to groundwater beneath the site, and serve to contain on site any pollutants that may potentially be present in the dredged material placed in the site.

To assess the potential for impacts to groundwater in the area, including any off-site wells in the vicinity of the site, that may occur as a result of placement of dredged material in the Stancill pit, MPA contracted with MES to conduct a study of the site. The study would include an assessment of current groundwater conditions and development of a groundwater model to predict any changes that may occur as a result of placement of dredged material in the site.

3.0 Summary of Previous Studies

During 2000, the site was the subject of a preliminary assessment to evaluate the feasibility of using the property as an upland containment site for dredged material from the Upper Bay channels. That study found that the site has the potential to provide up to 9.6 million cubic yards (MCY) of air space capacity if fully mined to the planned configuration and the site were then backfilled to elevation +90. This volume calculation assumes continued mining of the site to a maximum depth of -70 feet below mean sea level (MSL). Using a 30% reduction in volume for cut sediment after consolidation, the 9.6 MCY of air space capacity can contain approximately 13.6 MCY of cut quantity of dredged material. Thus, the site after completion of mining activities could contain up to 13.6 MCY of cut dredged material after raising the dikes to an elevation of +90 feet above MSL. At the annual rate of maintenance dredging of the Upper Bay channels (400,000 CY per year), the 9.6 MCY of air space capacity could potentially provide 34 years of service. Preliminary cost estimates for material placement using hydraulic and mechanical placement means was approximately \$12.23 and \$19.82 per cubic yard, respectively.

The earlier site study in 2000 indicates that either placement method offers technical challenges. Hydraulic placement could be impaired by long pumping distances, extensive shallow water and recreational boating issues, potential icing conditions as well as return flow effluent discharge issues. Mechanical placement would be similarly challenging, involving location of barge unloading facilities, as well as extensive trucking requirements and traffic issues.

With respect to site geology, the study conducted during 2000 found the site to be located in the Atlantic Coastal Plain Physiographic Province. Soil borings show the site to be underlain by layers of sandy material, gravels and clays in variable thickness. Depths to the top of the bedrock ranged from about 40 feet to about 100 feet. Soil tests indicate that the in-place permeability of the Clay Silt / Sandy Silt deposits beneath the site to be in the range of 10⁻⁶ cm/sec. Groundwater in the pit area was found to be shallow; being encountered about 2 feet beneath the quarry floor.

A preliminary hydrogeologic assessment found the general direction of groundwater flow in the area is in a southwesterly direction, flowing into Principio Creek and Furnace Bay. The study found that within a five-mile radius of the site, 2,600 well permits have been issued, and 112 wells were identified as Public or Industrial well that would be expected to have a large withdrawal rate. Within a one-half mile radius of the quarry, 17 wells have been permitted (two of which have not been built). None of the off-site wells are located downgradient of the property, between the site and Principio Creek or Furnace Bay. The study concluded that because the proximate wells located upgradient of the site are drilled into bedrock and do not include large capacity production wells, they would have a limited radius of influence, and that placement of clean dredged material from the Upper Bay channels at the site would pose little risk to contamination of potable wells in the vicinity.

The study identified groundwater as an issue that would require additional study. The depth of some on-site excavations is near the mean low water elevations in Furnace Bay, and likely below the elevation of the surficial unconfined aquifer at the site location. These deep excavations on the property likely serve as groundwater "sinks," resulting in the flow of groundwater into the site. Placement of dredged material by either hydraulic or mechanical methods in the site could

potentially result in effects on groundwater beneath the property and in the vicinity of the site. In addition, depending upon the depth of the excavation and the number of aquifers breached by the mineral extraction operations, the potential exists for inter-aquifer movement of groundwater. Once filled to capacity, groundwater flow directions in the site area would be altered, offering the potential to affect groundwater quality in the immediate region. The study concluded that a site geotechnical assessment would be necessary to adequately assess current groundwater conditions as well as the hydrogeologic suitability of the site to serve as a containment facility, and the potential effects on groundwater resources in the area that may result from placement of dredged material.

4.0 Groundwater Study Approach

MES developed a plan for the assessment of groundwater at the Furnace Bay site to assist in determining the feasibility of using the property as a dredged material containment facility. The plan was subsequently reviewed and approved by the MPA and the study authorized through the provisions of an existing Intergovernmental Agreement between MES and MPA. This study plan includes the following component elements:

- 1. An assessment of current groundwater conditions in the vicinity of the site. The assessment would include a determination of the rate and direction of groundwater flow at the site under the current configuration and a determination of existing groundwater quality.
- 2. Development of a current topographic map of the site.
- 3. Development of a hydrogeologic assessment of the site to determine subsurface conditions.
- 4. Development of a three-dimensional groundwater flow model of the site and the immediate area that reflects current groundwater conditions and conditions that would develop if the site were filled with dredged material.
- 5. Development of a predictive groundwater model to determine potential impacts to groundwater quality due to percolation of precipitation through dredged material deposited at the site.

MES contracted with KCE Engineering, Inc. to provide engineering services to MES during the investigation of the Stancill site. KCE was contracted to provide the following work elements as part of the site study:

- 1. Install one groundwater monitoring well and up to 9 piezometers at selected locations on the site to specified depths.
- 2. Conduct a current topographic survey of the site to provide boundary conditions to the groundwater model and current available air space volume.
- 3. Collect representative groundwater samples and provide laboratory analyses of the groundwater for identified constituents.

- 4. Measure and record groundwater elevations in the wells and piezometers for a six-month time period to determine groundwater level fluctuations over time.
- 5. Determine vertical and horizontal permeability in the upgradient surficial soils found in the perimeter buffer area on the site.
- 6. Conduct a detailed inventory of permitted wells in the vicinity of the site.

 MES contracted with URS Corporation to develop a comprehensive groundwater model of the site.

 URS was contracted to provide the following specific work:
 - 1. Develop a conceptual geologic model of the site.
 - 2. Develop a conceptual hydrogeologic interpretation of the site.
 - 3. Develop a MODFLOW three-dimensional groundwater flow model of the site to simulate current conditions and conditions that will develop as a result of placement of dredged material in the site
 - 4. Develop a three-dimensional groundwater transport model of the site to predict changes in groundwater quality as a result of placement of dredged material in the site.

To provide necessary input data to the groundwater transport model, MES would collect samples of dredged material that would be representative of materials likely to be placed in the Stancill quarry. MES decided to collect samples of dredged material that had been previously placed in the Courthouse Point dredged material containment facility. This material originated from the Upper Bay channels (North of Pool's Island and South of Sassafras) and was placed in the dredged material containment site during the 96-97 dredging effort.

The collected samples would then be subjected to a leaching procedure to produce a liquid fraction that is intended to simulate percolate water that would form when precipitation passes through dredged material. The selected leaching procedure is identified as the Toxicity Characteristic Leaching Procedure (TCLP). The TCLP procedure has been promulgated by the Federal Environmental Protection Agency, and is used as the definitive protocol for determining if a solid waste is a hazardous waste by exhibiting the characteristic of toxicity. The TCLP test is designed to simulate the leaching that takes place in a sanitary landfill, where aggressive leaching conditions can be experienced. The leaching uses a buffered acetic acid solution. The resultant liquid would then be analyzed for specific constituents and the data provided to URS Corporation for use as input data in the groundwater transport predictive model.

The investigative efforts and modeling reports would be completed by the contractors and provided to MES for assessment. MES staff would then review the studies to assess the potential effects on groundwater in the area that may result as a result of using the site as a dredged material placement facility.

5.0 Study Protocols and Procedures

5.1 KCE Engineering, Inc.

MES contracted with KCE Engineering to perform the site soils and groundwater investigative effort. The specific scope of work included the following:

- Development of a current topographic survey of the area (approximately 140 total acres).
 The survey will be to the 2-foot contour level of precision. The topographic information
 will be used as input information to the groundwater assessment and model.
- Installation of up to nine (9) groundwater piezometers and one pumping well and collection of hydrogeologic information at or near the Stancills, Inc. property in Cecil County. During piezometer and well installation, soil-boring information will be logged to determine subsurface conditions and materials at the site. A 72-hour pumping test will be performed on the pumping well. Budget provisions are included to enable a second 72-hour pumping test to be performed in the event that geologic conditions at the site necessitate an additional well and pumping test. Hydrogeologic information to be collected includes the following:
 - o Soil identification and classification
 - o In-situ permeability and transmissivity
 - O Well yield and drawdown characteristics
 - o Inventory and field verification of water supply wells within a one-mile distance of the site boundary.
 - O Climatic data for the area, including evapotranspiration and precipitation data.
- Installation of a continuous recorder and monthly observation of water levels in the piezometers to measure groundwater elevations for up a six-month period to determine groundwater elevations over time. A sample of the groundwater beneath the site will be collected for laboratory testing. A sample will be collected from each of the piezometers and from the pumping well. Each sample will be analyzed separately. Chemical analyses of the groundwater will be performed for the following constituents:
 - o Field determination of dissolved oxygen (DO), pH, temperature, conductivity and Oxidation Reduction Potential (ORP).
 - o Sodium
 - o Potassium
 - o Calcium
 - o Magnesium
 - o Bicarbonates
 - o Chloride
 - o Sulfate and Sulfide
 - o Nitrate-Nitrogen
 - o Iron
 - o Manganese
 - o Arsenic
 - o Cadmium

- o Chromium
- o Copper
- o Lead
- o Zinc
- o Nickel
- o Selenium
- Total Petroleum Hydrocarbons
- o Nitrate-Nitrite-Nitrogen
- o Total Nitrogen
- o Total Kjeldahl Nitrogen
- o Alkalinity
- o Ammonia Nitrogen
- o Chemical Oxygen Demand
- o Dissolved Solids
- o Total Phosphorous
- o Total Organic Carbon
- o Carbon Dioxide
- o Ferrous Iron
- o Methane

The location of the piezometers and the selected well site are shown on Figure 5.1. Well completion reports, laboratory analysis sheets and recorded water levels are included as Appendix A to this report.

5.2 URS Corporation

MES contracted with URS Corporation to develop and calibrate the groundwater models necessary to assess groundwater flow in the area and predict potential changes to groundwater in the area if dredged material were placed at the site. The specific scope of work included the following:

- Development of a predictive groundwater model to estimate groundwater conditions and flow directions in the vicinity of the Furnace Bay site after placement of dredged material. Subtasks include:
 - Oversight of well/piezometer installation and field testing and assessment of data gathered during field investigative activities.
 - O Development of a conceptual geologic model of the site that is based upon the field investigative activities.
 - O Development of a conceptual hydrologic model of the site that is based upon the results of the field investigative activities.
 - O Development and calibration of a MODFLOW Groundwater Flow Model of the site based upon the conceptual geologic and hydrogeologic interpretations.
 - O Development of a MT3DMS transport model to model the transport and degradation of three chemical compounds to simulate potential groundwater impacts as a result of placement of dredged material in the site.



The conceptual geologic model is included as Appendix B to this Report. The conceptual hydrogeologic model is included as Appendix C to this report. The Groundwater Flow Model is included as Appendix D to this report. The Transport Model is included as Appendix E to this report. The current site topographic map is included as Appendix F.

5.3 Maryland Environmental Service

MES reviewed prior studies and geologic information regarding the site and met with the subcontractors and the property owner to select appropriate areas within the Stancill quarry for installation of the pumping well and piezometers. MES supervised field activities and testing efforts undertaken by the selected subcontractors at the site and reviewed and evaluated the resultant data and other work products.

In addition, MES obtained representative samples of dewatered dredged material for analytical testing and production of simulated percolate water. Analytical results from testing of the percolate data was used provided to URS Corporation and subsequently used as input data to the groundwater model.

MES used the current topographic survey information provided by KCE Engineering to determine the current air space capacity available in the Stancill quarry. In addition, MES developed an alternative final site configuration to determine the additional site air space capacity that could be provided.

Finally MES evaluated the results of the groundwater assessment and modeling effort. Based upon this assessment, MES then prepared the final report regarding the potential impacts to groundwater as a result of placement of dredged material in the Stancill quarry.

6.0 Field Investigations and Activities

6.1 Piezometer Installation & Testing

KCE Engineering installed the well and piezometers on the site during October and November of 2001. The installed piezometers were designated PZ 1 through PZ 9. However, the pumping well, which was drilled to a depth of approximately 90 feet below the bottom of the quarry floor, did not produce water, which would be necessary to determine the aquifer characteristics necessary as input data to the model. This information would be determined by a pump test of the well. After discussion with URS, it was decided that there was a high probability that installation of another well in a different location within the quarry may produce another dry hole. Since the necessary aquifer information could be determined by slug testing the nine newly installed piezometers, a decision was made to abandon the well pump test task and to slug test all of nine piezometers. The results from the slug tests will provide the necessary aquifer data. The slug test results can be found in Appendix C. URS Corporation conducted the slug tests on the nine piezometers during late November 2001. Piezometer information is summarized in Table 6.1, below. The well completion reports are included in Appendix A to this report.

Table 6.1 - Piezometer Information

Number	Installed Depth	Material Description
PZ 1	25 Feet	Brown silty sand; brown sandy clay
PZ 2	40 Feet	Light brown sand & gravel; light Brown silty sand
PZ 3	20 Feet	Light brown silty sand
PZ 4	25 Feet	Light brown silty sand
PZ 5	20 Feet	Light brown silty sand
PZ 6	20 Feet	Light brown silty sand
PZ 7	20 Feet	Light brown silty sand
PZ 8	40 Feet	light brown to dark brown silty sand
PZ 9	90 Feet	0 to 40 ft Light brown to dark brown silty sand 40 to 90 ft Light brown to dark brown silty sand with a trace of red clay

On November 6, 2001, KCE Engineering collected representative samples of groundwater from each of the nine piezometers and submitted the groundwater samples to Martel Laboratories for analyses. Additional field measurements for Dissolved Oxygen, pH, Temperature, Conductivity and Oxidation Reduction Potential were taken in the field for each piezometer at the same time that the groundwater samples were collected. Table 6.2 contains a summary of the analytical test results of the groundwater. The laboratory analytical sheets and Chain of Custody Forms are included in Appendix A of this report.

Table 6.2: Analytical Results from Sampling Wells at Stancill Quarry

				,					-						
	Detection		Minimum	Maximum	Median	Average		1						57.0	
Parameter	Limit	Units	Concentration	Concentration			PZ-1	PZ-2	PZ-3	PZ-4	PZ-5	PZ-6	PZ-7	PZ-8	PZ-9
Methane, dissolved	0.0005	mg/L	0.00053	0.2	0.0063	0.052	0.2	0.0011	0.066	0.09	0.0063	0.0011	0.00053	<0.0005	<0.0005
Carbon Dioxide	1	mg/L_	· 8	140	20	35.111	140	9	24	8	60	16	20	14	25
Total Petroleum Hydrocarbons	2	mg/L	ND	ND	ND	ND	<2	<2	<2	<2	<2	<2	<2	<2	<2
Sulfide	0.1	mg/L	ND	ND	ND	ND	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Nitrate - Nitrite Nitrogen	0.05	mg/L	0.12	1.7	0.29	0.500	0.23	0.35	0.12	<0.05	<0.05	<0.05	1.7	0.18	0.42
Kjeldahl Nitrogen (Total)	0.5	mg/L	ND	ND	ND	ND	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ammonia Nitrogen	0.2	mg/L	ND	ND	ND	ND	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chemical Oxygen Demand	20	mg/L	21	230	49	70.429	230	21	<20	71	65	49	36	21	<20
Phosphorous (total)	0.05	mg/L	0.09	0.65	0.33	0.359	0.49	0.26	0.17	0.57	0.65	0.55	0.33	0.12	0.09
TOC (Total Organic Carbon)	0.1	mg/L	1.8	22	6.9	9.567	20	5	6.9	22	5.9	14	7.2	3.3	1.8
Sodjum	0.5	mg/L	3.6	13	7.5	7.500	5.8	13	7	4.9	9	3.6	8.2	7.5	8.5
Potassium	5	mg/L	ND	ND	ND	ND	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Calcium	0.5	mg/L	2.8	9.7	5.5	5.578	5.5	5.9	8	5.6	9.7	3.6	4.8	4.3	2.8
Magnesium	0.5	mg/L	0.9	8.3	2	2.533	1.3	1.9	2	2.3	8.3	2.1	2.4	0.9	1.6
Iron	0.01	mg/L	0.27	120	4.5	16.979	120	5.7	0.89	7.6	11	2.5	4.5	0.27	0.35
Manganese	0.01	mg/L	0.04	4.2	0.12	0.616	0.26	0.12	0.11	0.35	4.2	0.3	0.09	0.07	0.04
Arsenic	0.005	mg/L	ND	ND	ND	ND	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cadmium	0.0005	mg/L	0.0005	0.0007	0.0006	0.001	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0007	<0.0005	<0.0005	
Chromium	0.005	mg/L	0.007	0.09	0.035	0.036	0.09	0.018	<0.005	0.047	0.011	0.035	0.047	<0.005	0.007
Copper	0.005	mg/L	0.008	0.027	0.018	0.017	0.02	0.008	0.01	0.027	0.023	0.018	0.014	<0.005	<0.005
Lead	0.005	mg/L	0.007	0.027	0.014	0.017	0.027	0.007	<0.005	0.025	0.016	0.012	0.012	<0.005	
Zinc	0.01	mg/L	0.03	0.12	0.05	0.053	0.12	0.05	0.03	0.06	0.05	0.04	0.07	0.03	0.03
Nickel	0.005	mg/L	0.007	0.037	0.011	0.014	0.015	0.007	0.008	0.014	0.019	0.011	0.037	0.007	<0.005
Selenium	0.005	mg/L	ND	ND	ND	ND	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Bicarbonates (as CaCO3)	1	mg/L	4	39	25	23.250	39	<1	18	<1	32	<1	<1	4	22
Chloride	2	mg/L	6	25	14	15.222	15	13	14	10	13	6	25	19	11
Sulfate	5	mg/L	6.1	41	16	16.333	17	16	6.7	41	20	20	9.2	6.1	
Nitrate Nitrogen	0.05	mg/L	0.1	1.7	0.2	0.500	0.2	<0.05	0.1	<0.05	<0.05	<0.05	1.7	0.1	0.4
Nitrite Nitrogen	0.02	mg/L	0.02	0.35	0.03	0.102	0.03	0.35	0.02	<0.02	0.03	<0.02	<0.02	0.08	<0.02
Total Nitrogen	0.05	mg/L	0.12	1.7	0.29	0.500	0.23	0.35	0.12	<0.05	<0.05	<0.05	1.7	0.18	0.42
Alkalinity, total (as CaCO3)	1	mg/L	4	39	25	23.250	39	<1	18	<1	32	<1	<1	4	<1
Solids (dissolved)	1	mg/L	18	210	62	79.444	210	54	64	18	140_	50	69	48	62
Iron (ferrous)	0.01 OR 60)					L				determina				
Iron (Ferric by Calculation)	60	Π					<u> </u>			ir	determina	ate			
			wore indetermin												

Iron (ferrous) and Iron (Ferric by Calculation) results were indeterminate

ND = Non detect

On November 6, 2001KCE Engineering also commenced measuring and recording the water level in each of the piezometers. This water level recordation effort continued on a monthly basis until May 30, 2002. On December 11, 2001, KCE Engineering installed a continuous water level monitor in PZ6 and commenced recordation of water levels on an hourly basis. A summary of the results of water level monitoring is found in Table 6.4.

Table 6.3 Field Measurements

	Ground Water Monitoring								
Stancill Quarry, Furnace Bay									
Field Measurements of Water Samples taken on November 6, 2001									
Project # 01116.00									
	Oxidation								
	Dissolve				Reduction				
	d Oxygen		Temperature	Conductivity	Potential				
Peizometer #	(mg/l)	pН	(°C)	(S/cm)	ORP (mV)				
PZ 1	3.10	5.77	14.06	0.496	-16				
PZ 2	5.88	5.26	15.60	0.099	183				
PZ 3	4.26	5.29	14.28	0.200	-8				
PZ 4	4.03	5.33	16.57	0.077	132				
PZ 5	3.80	5.38	13.77	0.247	97				
PZ 6	5.95	4.70	12.76	0.087	277				
PZ 7	7.37	4.61	12.86	0.142	277				
PZ 8	8.76	5.18	12.14	0.101	252				
PZ 9	7.52	4.87	12.14	0.119	270				

Table 6.4 Monthly Water Level Readings

	Monthly Ground Water Levels														
	Stancill Quarry, Furnace Bay														
	November 2001 through May 2002														
	Project # 01116.00														
	Elevation of														
	PVC Casing	,									~ 4 ***		· · · (E · ·	`	·
Peizometer #	(ft) amsl			Tape Read	ding (Dep	th in Feet							ation (Feet		20
·		Nov. 6	Dec. 11	Jan.8	Feb.6	Mar. 7	April 3	May 30	Nov. 6			Feb.6			May 30
PZ 1	23.51	16.43	16.41	16.87	16.87	16.95	16.74	16.84	7.08						
PZ 2	13.94	4.89	5.02	5.64	4.96	5.29	4.50	4.56	9.05						
PZ 3	21.86	18.07	18.58	18.62	18.77	18.84	18.44	18.63	3.79						
PZ 4	13.59	12.28	13.83	13.44	14.06	14.22	12.97	13.71	1.31	-0.24					
PZ 5	38.24	24.59	24.66	24.81	24.74	24.83	24.55	24.58	13.65	13.58	<u> </u>			13.69	
* PZ 6	11.04	8.15	9.18	9.41	9.85	10.49	9.82	10.13	2.89	1.86			 		
PZ 7	8.69	6.62	6.62 7.78 7.41 8.02 8.19 7.48 8.1 2.07 0.91 1.28 0.67 0.50 1.21												
PZ 8	100.66	61.85	61.88	62.22	62.40	62.60	62.70	62.89	38.81	38.78					
PZ 9	18.35	15.13	16.18	16.14	16.77	17.09	16.45	16.9	3.22	2.17	2.21	1.58	1.26	1.90	1.45

^{*} Level Logger installed on December 11, 2001 to observe continuous water levels

6.2 Site Survey and Placement Capacity

On November 16, 2001, KCE contracted for an aerial topographic photo of the site to be taken. KCE Engineering then used the aerial photo to develop a current topographic map of the site. A topographic map at a scale of 1 inch = 100 feet was prepared. The data was collected in a digital AutoCAD release format and stored on a CD. A copy of the topographic map of the site is included as Appendix F to this report. MES then employed the current topographic information to determine the air space capacity currently available at the site. For comparative purposes, MES used the same site configuration that was suggested by Gahagan & Bryant Associates (GBA) in the Feasibility Study of the site that was conducted in 2000. That site configuration includes an earthen berm constructed from on-site materials to a maximum elevation of +90 feet. That volume was also based upon an assumption that the site had been excavated to a depth of -70 feet below MSL, which is the configuration approved in the current mining permit. The berm was used since the GBA study included examining the feasibility of hydraulic placement of dredged material in the site.

Using the current site information provided by the 2001 topographic survey and employing the GBA site configuration, MES determined that the site presently possesses an available air space capacity of 7.2 MCY. However, if the site was used to contain only dewatered material, berm construction is not necessary. In addition, by placing material in compacted lifts and grading the compacted material to a higher elevation over the site, additional air space capacity can be provided. MES assumed several finished site configurations that includes the +90 foot elevation as the base and then steps in with a 10-foot bench to place additional material. Using 4H to 1:V side slopes and constructing 10-foot benches at every 30-foot increase in elevation to a maximum elevation of +148 feet above MSL, MES determined that the site could potentially provide up to 8.6 MCY of air space capacity based upon the current topography (Figure 6.1). With 3:H to 1:V slopes and benches ever 30 feet of increased elevation over the +90 foot berm, MES found that the site could currently provide up to 10.4 MCY of air space capacity (Figure 6.2). The final site configuration suggested by GBA is shown as Figure 6.3, and the MES suggested modified site configurations are shown as Figures 6.1 and 6.2.

6.3 Permeability Test

To determine to ability of groundwater to move through the soil material within the perimeter buffer area along Mountain Hill Road, additional permeability data was required. To obtain this information, on June 4, 2002 KCE Engineering installed two soil test borings in the overburden material at the Stancill site. The soil borings were cased with 4-inch diameter PVC casings. The first test boring, designated Well No. 1, was drilled to a depth of approximately 45 feet below ground surface. The second soil boring, designated Well No. 2 was drilled to a depth of approximately 25 feet below ground surface. On June 5, 2002, horizontal and vertical permeability tests were performed on the two wells. Data was recorded in the field following the falling head testing method and calculation procedures as specified in ASTM D 6391-99. This test procedure was designed to determine the permeability values that are the maximum possible in the vertical direction and the minimum possible in the horizontal direction. The test protocol description and calculations are included in Appendix A to this report. The time-weighted average permeability results for the overburden material in the buffer area are summarized in Table 6.5.

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On November 16, 2001, KCE contracted for an aerial topographic photo of the site to be taken. KCE Engineering then used the aerial photo to develop a current topographic map of the site. A topographic map at a scale of 1 inch = 100 feet was prepared. The data was collected in a digital AutoCAD release format and stored on a CD. A copy of the topographic map of the site is included as Appendix F to this report. MES then employed the current topographic information to determine the air space capacity currently available at the site. For comparative purposes, MES used the same site configuration that was suggested by Gahagan & Bryant Associates (GBA) in the Feasibility Study of the site that was conducted in 2000. That site configuration includes an earthen berm constructed from on-site materials to a maximum elevation of +90 feet. That volume was also based upon an assumption that the site had been excavated to a depth of -70 feet below MSL, which is the configuration approved in the current mining permit. The berm was used since the GBA study included examining the feasibility of hydraulic placement of dredged material in the site.

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DATE OF PHOTOGRAPHY: NOVEMBER 16, 2001

PHOTOGRAMMETRY BY
HARFORD AERIAL SURVEYS, INC.
DATE OF PHOTOGRAPHY: NOVEMBER 16, 2001



STANCILL QUARRY
CECIL COUNTY, MARYLAND
FIGURE 6.2

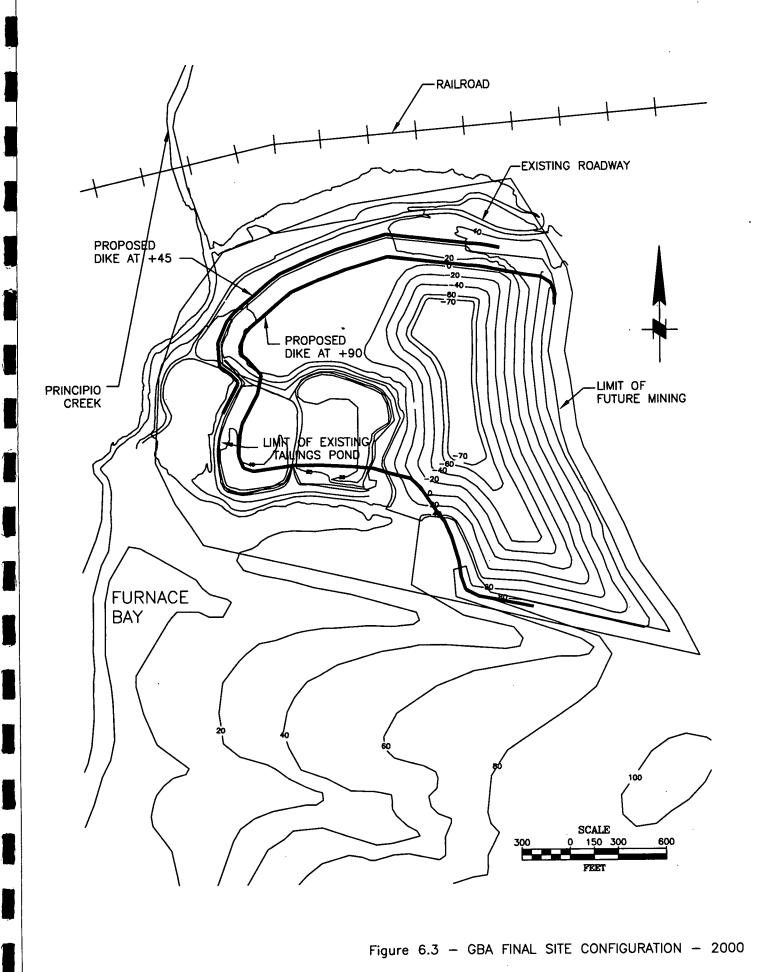


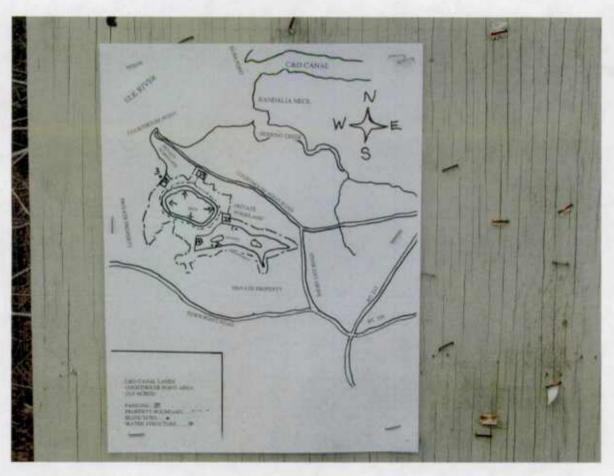
Table 6.5 - Overburden Permeability Data

Well No.	Depth	Vertical Permeability	Horizontal Permeability
1	45 Feet	1.80 x 10 ⁻³ cm/sec	2.37 x 10 ⁻³ cm/sec
2	25 Feet	5.80 x 10 ⁻⁴ cm/sec	1.47 x 10 ⁻⁴ cm/sec

6.4 Dredged Material Sampling & Characterization Procedures

On February 20, 2002, MES collected representative samples of dredged material from the Courthouse Point dredged material containment facility located in Cecil County, south of Chesapeake City. Figure 6.4 is a photo of the Courthouse Point dredged material containment site location map and Figure 6.5 illustrates the site.

Figure 6.4 Courthouse Point DMCF Site Map



The facility was constructed by and is maintained by the US Army Corps of Engineers (COE), Philadelphia District as a dredged material containment facility. The containment site is used to manage dredged material removed from the Upper Bay approach channels to the C&D Canal. A COE representative advised MES that the COE had recently rebuilt one of the dikes. This process resulting in the mixing of some of the dredged material at the facility. This would serve to provide a more homogeneous soil sample for analytical testing purposes.



Figure 6.5 Courthouse Point Site Photo

Since the exact origins of the dredged material that would be placed at the proposed study area is unknown; other than the fact that the material will be clean, and due to the geographical and hydrological features of the bay, sediment characteristics are likely to vary significantly. Therefore, rather than determining composite samples or delineating representative project segments from a specific dredging area, a general composite sample was collected from an area where dredged material from multiple sources has already been deposited. The Courthouse Point site is believed to be a desirable collection point due to it being an ideal composite sample.

The primary objective of this elutriate testing is to adequately and accurately characterize the dredging and reference area. Since the reference area is rather broad, it is believed that an accurate composite sample could be collected from the Courthouse Point containment facility. The Courthouse Point site contains an ideal composite sample that would represent dredged material collected from multiple clean areas of the bay. A sample from this area would accurately represent clean sediments for use in the chemical transport model.

In order to adequately characterize the dredge material five samples and a duplicate were collected from Courthouse point. Sample collection consisted of adequate sampling equipment appropriate to the site and the study, and non-contaminating sampling apparatus capable of obtaining representative samples. This equipment consisted of a stainless steel shovel and bucket. The shovel was used to collect the sample and thee bucket was used to mix grab samples of dredged material. The samples placed in the bucket were mixed using the shovel. The samples where then placed in the appropriate containers then shipped to laboratory for analysis.

In order to prevent cross contamination all sampling equipment was decontaminated between sample collection efforts. The decontamination consisted of triple rinsing the equipment using an Alconox solution and then rinsed with de-ionized water.

The samples were preserved using the appropriate chemicals and refrigeration so that the sample integrity was not compromised. Following the sample collection, they were placed in the appropriate sample containers and stored in coolers on ice at 4° C until they are shipped to the laboratory.

6.5 Dredged Material Sample Analysis & Results

The sediment samples were then submitted to Atlantic Coast Laboratories (ACL) for analytical testing and leaching to produce simulated percolate water. To simulate water quality characteristics representative of percolate water that would be produced at the Stancill site, MES directed ACL to subject the collected sediment samples to two different leaching procedures. Percolate water would be produced when a portion of the precipitation that falls on the quarry site infiltrates through the dredged material and eventually reaches groundwater beneath the site. This percolate water would then combine with groundwater beneath the site and move along with the general groundwater in the area. Depending upon the chemical characteristics of the percolate water, groundwater quality beneath the site may be affected. Samples of percolate from both leaching procedure were submitted to a commercial laboratory and analyzed to determine the concentration of specific constituents. The analytical results were then provided to URS. Selected chemical constituent data would be used as input parameters to the groundwater predictive model.

One leaching protocol that was employed is known as the Toxicity Characteristic Leaching Procedure (TCLP). This is the test protocol specified in State and Federal regulations that is used to simulate leachate characteristics of solid waste to determine if the solid waste is a hazardous waste under the provisions of the Federal Resource Conservation and Recovery Act (RCRA). The results of TCLP testing are recognized as being a conservative assessment of potential leaching characteristics, due to the aggressive nature of the leaching procedure, which uses a buffered acid extract solution. Therefore, the resulting liquid from the TCLP test protocol is considered to be a very conservative simulation of the percolate that may be produced as precipitation passes through the dredged material. The analytical results obtained from testing of the TCLP percolate is shown in Table 6.6.

Table 6.6 - TCLP Percolate Data Test Results

Parameter	Detection Limit	Units	SS-1	SS-2	DUP	SS-3	SS-4	SS-5
TCLP								
Bicarbonate, Alkalinity	1	mg/L	170	165	130	170	891	840
Carbon dioxide	1.25	mg/L	ND	ND	ND	6.25	ND	1.25
Chloride	0.39	mg/L	ND	24.8	19.4	ND	ND	ND
Ferrous Iron	0.02	mg/L	ND	ND	ND	ND	ND	ND
Nitrate	0.06	mg/L	2.14	ND	ND	0.372	ND	ND
Nitrate/Nitrite	0.08	mg/L	2.14	ND	ND	0.372	ND	ND
Total Dissolved Solids	10	mg/L	4,262	4,402	4,394	4,204	4,409	4,441
Sulfate	0.38	mg/L	91.5	129	120	115	18.2	78
Total Alkalinity-Titration	1	mg/L	170	165	130	170	891	840
Ammonia	0.2	mg/L	0.28	0.46	0.21	0.73	ND	ND
Chemical Oxygen Demand	10	mg/L	5,440	5,630	5,450	5,240	5,570	5,540
Phosphorous, total	0.02	mg/L	0.06	0.05	0.05	0.06	0.07	0.06
Total Kjeldahl Nitrogen	0.2	mg/L	1.4	0.85	0.7	1.9	0.77	0.78
Nitrogen, total	0.2	mg/L	3.5	0.85	0.7	2.3	0.77	0.78
Total Organic Carbon	100	mg/L	1,894	1,943	1,947	1,896	1,939	1,932
Methane		ug/L	2	2	2	2	2	2
Arsenic	0.1	mg/L	ND	0.15	0.12	ND	ND	ND
Chromium	0.1	mg/L	ND	ND	ND	ND	ND	ND
Cadmium	0.1	mg/L	ND	ND	ND	ND	ND	ND
Lead	0.1	mg/L	ND	ND	ND	ND	ND	ND
Selenium	0.1	mg/L	ND	ND	ND	ND	ND	ND
Calcium	5	mg/L	15	15	16	13	7.5	21.1
Copper	0.1	mg/L	ND	ND	ND	ND	ND	0.36
Nickel	0.1	mg/L	0.16	ND	ND	0.16	ND	0.44
Iron	0.5	mg/L	ND	0.66	ND	ND	ND	ND
Magnesium	0.5	mg/L	6	12	11	6.2	2.6	4.96
Manganese	0.1	mg/L	6.5	11	11	7.1	3.8	3.71
Sodium	10	mg/L	1,182	1,114	1,072	1184	1180	1143
Zinc	0.1	mg/L	0.67	0.45	0.41	0.89	0.33	0.65
Total Petroleum Hydrocarbons	5.5	mg/L	21	ND	ND	9.7	ND	ND
Sulfide	0.03	mg/L	ND	ND	ND	ND	ND	ND

The second leaching protocol employed was conducted using deionized water as the leaching media. The analytical results obtained from testing of the deionized water percolate are shown in Table 6.7 below.

Table 6.7 – ASTM Leaching Protocol Test Results

ASTM Leachate								
Sodium	0.2	mg/L	2.76	9.6	14	2.95	7.6	7.61
Bicarbonate, Alkalinity	1	mg/L	4	1	1	6	6	4.2
Carbon Dioxide	1.25	mg/L	ND	2.5	3.75	6.25	ND	1.25
Dissolved Oxygen	1	mg/L	6.1	5.82	5.74	6.08	MIS	SING
Redox Potential		mg/L	155	147	153	155	91	144
Specific Conductance	1.08	mg/L	212	269	260	187	53	190
Total Alkalinity- Titration	1	mg/L	4	1	1	6	6	4.2
рН		mg/L	6.31	6.16	6.15	6.58	8.00	6.64
Chemical Oxygen Demand	10	mg/L	ND	ND	ND	ND	ND	ND
Total Organic Carbon	1	mg/L	2.3	ND	1	2.1	ND	1.3
Sulfide	0.03	mg/L	ND	ND	ND	ND	0.05	0.06

A comparison of the analytical results obtained from testing the two simulated percolate water clearly shows significant differences. Table 6.8 is a comparison table for specific constituents that are significantly impacted depending upon the percolate simulation protocol employed.

Table 6.8 – TCLP and ASTM Leaching Test Results Comparison

COMPARISON OF TCLP VS ASTM FOR SELECT PARAMETERS

TCLP
ASTM Leachate- using DI

Parameters	SS	S-1	SS	5-2	DI	JP
Sodium	2.76	1,182	9.6	1,114	14	1,072
Bicarbonate, Alkalinity	4	170	1	165	1	130
Carbon Dioxide	ND	ND	2.5	ND	3.75	ND
Total Alkalinity- Titration	4	170	1	165	1	130
Chemical Oxygen Demand	ND	5,440	ND	5,630	ND	5,450
Total Organic Carbon	2.3	1,894	ND	1,943	1	1,947
Sulfide	ND	ND	ND	ND	ND	ND
	SS	3-3	SS	6-4	SS-5	
Sodium	2.95	1,184	7.6	1,180	7.61	1,143
Bicarbonate, Alkalinity	6	170	6	891	4.2	840
Carbon Dioxide	6.25	6	ND	ND	1.25	1
Total Alkalinity- Titration	6	170	6	891	4.2	840
Chemical Oxygen Demand	ND	5,240	ND	5,570	ND	5,540
Total Organic Carbon	2.1	1,896	ND	1,939	1.3	1,932
Sulfide	ND	ND	0.05	ND	0.06	ND

As is evident from the comparative table, the TCLP percolate data represents a very aggressive leaching protocol. The Sodium concentration in the simulated percolate produced using the TCLP procedure is approximately 500 times greater than that in the percolate produced using the DI procedure. The chemical oxygen demand and total organic carbon concentrations in the percolate produced using the TCLP leaching procedure show similar order of magnitude differences from the concentrations found in the percolate produced using the DI leaching procedure. From this, one can conclude that the simulated leachate produced using the TCLP procedure represents a "worst case" scenario of leaching that may result if dredged material were placed in the Stancill quarry.

7.0 Modeling Efforts

MES provided URS Corporation with copies of all information and data collected during the field investigation of the Stancill site at Furnace Bay. URS Corporation then utilized this information in developing a groundwater model of the site. URS Corporation developed a conceptual geologic model of the site and a conceptual hydrogeologic model of the site. These models were then used to develop a three-dimensional MODFLOW groundwater model of the site. Once the groundwater flow model was developed and calibrated, URS Corporation developed a MT3D transport model to predict potential groundwater changes for three indicator parameters that may occur if dredged material were used to fill the Stancill quarry.

7.1 Conceptual Geologic Interpretation

In April 2002, URS Corporation submitted a report entitled "Conceptual Geologic Interpretation of the Stancill Quarry Site, Cecil County, Maryland." The report is based upon geologic information available in the literature for the Cecil County area as well as site-specific information gathered during the current and past studies of the site.

The report shows the Stancill site to be located southeast of the fall line, the boundary between the Atlantic Coastal Plain Physiographic Province and the Appalachian Piedmont Province. The Fall Line, which is located approximately one-half mile north and west of the site, trends in a northeast-southwest direction.

The site is located within the Atlantic Coastal Plain Physiographic Province and is an active surface mine, producing sand, gravels, clays and other materials. The top of the saprolite, which is the weathered in place surface of the basement rock in the area, slopes towards the south and east. The local bedrock dip direction is to the south-southeast, with a gradient of approximately 100 feet per mile.

Three geologic units in the area of the site were mapped based upon their age and physical properties. These units are as follows:

- Post-Cretaceous stream-laid deposits;
- Cretaceous Age non-marine sediments; and
- Paleozoic Age crystalline rock residuum (saprolite), which overlies the crystalline basement rock complex.

Boring information show the thickness of the sediments beneath the site range up to 150 feet. These sediments consist of interbedded layers of silt, sand, gravels and clay. Test data show the Cretaceous and post-Cretaceous sediments to exhibit low permeability. However, due to their variability, both horizontally as well as vertically, these deposits cannot be correlated over even short distances over the site. This variance is the result of the meandering nature of the streams, including the downcutting that occurs during periods of marine regression.

URS Corporation concluded that poorly consolidated Quaternary/Tertiary fluviatile deposits originally mantled the site. These post-Cretaceous deposits have been substantially removed over the years as a result of mining operations. The site appears to be uniformly underlain by a low permeability saprolite, the weathered residuum of the crystalline bedrock, which separates the surficial deposits from the underlying bedrock. The saprolite is the residue left in place after the more soluble iron and manganese-rich minerals of the metamorphic rocks have been altered to clay minerals by the physical and chemical processes of weathering. The weathering process converts the more soluble materials into clay minerals and the saprolite forms a tough, dense silty-clayey zone of low permeability over the crystalline basement rock complex.

The crystalline basement complex bedrock consists of metamorphosed volcanic rocks, chiefly interlayered quartz amphibolite and gneiss. This bedrock complex is the principal domestic water source in the vicinity of the quarry. The Cretaceous deposits, between the Quaternary/Tertiary deposits and the saprolite were not encountered in all boreholes on the site. This suggests that the Cretaceous sediments were deeply eroded by marine regression that occurred in this area during Tertiary/Quaternary time.

Water within the bedrock is found in pores, partings and fractures. These openings are of two types: primary, which form at the same time as the rock; and secondary, which form as the result of dynamic earth forces. Primary openings in the crystalline rocks in the Piedmont are generally less than 1 percent of the total volume and have little effect on the storage and movement of water. Secondary porosity, represented by fractures, joints, faults and other openings formed by physical weathering, are the main sources of water to wells in the vicinity of the quarry site. Typical well yields from wells installed in this crystalline rock average 11 gallons per minute (gpm).

A copy of the conceptual geologic interpretation report is found in Appendix B of this report.

7.2 Conceptual Hydrogeologic Interpretation

URS Corporation submitted a report entitled "Conceptual Hydrogeologic Interpretation of the Stancill Quarry Site, Cecil County, Maryland" dated May 2002. The conceptual hydrogeologic interpretation is based upon an assumed filling of the Stancill site to a height of + 90 feet. URS Corporation states that this site configuration is assumed to be a "worst case" scenario for groundwater modeling purposes. The model also assumes that the dredged material that would be placed in the quarry would likely consist of finer grained materials, such as fine sands, silts and clays, with occasional coarser grained materials. This assumption is consistent with materials typically encountered during maintenance dredging projects.

Geologic information on the area shows the site to be within ½ mile of the nearest exposure of crystalline basement rocks along Principio Creek. Therefore, the site shares aspects of both the Piedmont and Coastal Plain. URS Corporation identified the Cretaceous deposits found at the site and indicates that the deposits appear to correspond to the Potomac Group. Further, URS Corporation finds that the lithologic character of the deposits found at the Stancill site correspond to the middle Potomac confining unit, which consists predominantly of silt and clay.

Water level data collected over the period of the study were used to develop groundwater contours of the area. These water level contours consistently show that groundwater flow is inward towards the quarry from all directions toward the lowest elevation pond located within the boundaries of the quarry. However, during the initial site assessment performed in 2000, water levels recorded from temporary wells installed within the quarry showed a groundwater gradient to the south, spreading laterally as it moves in a southern direction. Data obtained from well E-6, which was installed in the southwestern portion of the quarry, suggests the possibility of leakage of groundwater from the quarry at that point.

Recharge to the quarry includes precipitation that falls directly onto the site as well as groundwater that flows in a radial pattern into the quarry. Discharges from the quarry consist of natural evaporation, water that is consumed in the processing of the earthen materials excavated from the quarry and marketed, and possible leakage from the bermed settling ponds, which are located at the higher elevations within the quarry.

The materials found at the Stancill site from bottom to top consist of the following:

- Crystalline igneous and metamorphic rocks of great but unknown thickness;
- Saprolite material, the residuum of the crystalline rock that has weathered in place;
- Non-marine sediments of early Cretaceous age of the Potomac Group; and
- Unconsolidated non-marine deposits overlying the Potomac Group believed to be of Tertiary/Quaternary age.

The hydraulic conductivity of these upper layer units ranges from 10^{-4} to 10^{-6} cm/sec. The average value that was determined from slug testing nine piezometers PZ-1 through PZ-9 is 3.6×10^{-3} cm/sec.

Specific conductance measured in PZ-1 through PZ-9 on November 6, 2001 indicate that the specific conductance of the quarry groundwaters were slightly lower that the specific conductance of the crystalline rock aquifers of Cecil County, but slightly higher than specific conductance measured in Potomac Group aquifers in the County. The range of pH in the nine boreholes, as measured in the field on November 6, 2001, and listed in Table 6.3, were found to be comparable to those cited in the literature. The laboratory results for 32 constituents obtained from tests of the groundwater were found to be generally within the range of sample results obtained from crystalline rock aquifers. The iron content of water collected from borehole PZ-1 was reported to be 120 mg/l, which is nearly five times higher that the highest iron value reported for Cecil County, which is 24 mg/l. The highest manganese concentration, 4.2 mg/l, was found in borehole PZ-5, which can be compared to approximately 2 mg/l reported for Cecil County.

The physical boundaries developed for the model consist of natural drainage basins that enclose the Stancill site. Approximately three quarters of the site is surrounded by creeks and tidal embayments that provide local recharge or receive water from the surficial aquifer.

A copy of the conceptual hydrogeologic interpretation report is found in Appendix C of this report.

7.3 MODFLOW Groundwater Flow Model

In July, 2002, URS Corporation submitted a report entitled "MODFLOW Flow Model Report of the Stancill Quarry Site, Cecil County, Maryland." The report describes development of the model to simulate groundwater and the capture of groundwater constituents at the Stancill site. The computer programs MODFLOW, which is a finite difference numerical groundwater flow modeling code, and MODPATH, which is a particle-tracking package that is used in conjunction with MODFLOW, were used to develop the groundwater model of the Stancill site.

Due to insufficient site-specific information, URS Corporation was unable to develop a comprehensive water budget for the site. Therefore, the water budget used for model input is based upon studies that were conducted at Aberdeen Proving Ground, which is located 10 miles southwest of the quarry. The Aberdeen site budget includes precipitation information, evapotranspiration, and infiltration to underlying aquifers. Table 7.1 summarizes the input parameters were used in the MODFLOW model:

The site-specific groundwater model also requires delineation of specific site boundaries for inclusion in the model. Water in the form of creeks and tidal embayments that constitute natural drainage basins surround approximately 75% of the site.

Table 7.1 – Summary of Model Input Parameters

	1				
Model Input Parameter	Measured or Selected Value				
Average annual precipitation	45 inches per year (1969 – 1990); 48 to 49 inches per year 1989 to 1990				
Total evapotranspiration rate	25 to 28 inches per year				
Average annual recharge to the aquifers	12 to 13 inches per year				
Pond evaporation rate	33.14 inches per year				
Permeability in the saprolite	1 x 10 ⁻⁴ cm/sec to 1 x 10 ⁻⁶ cm/sec				
Potomac Group permeability	1.1 x 10 ⁻⁶ cm/sec to 5.6 x 10 ⁻⁶ cm/sec				
Surficial soil hydraulic conductivity	8.85 x 10 ⁻³ cm/sec to 9.50 x 10 ⁻⁶ cm/sec average hydraulic conductivity 3.57 x 10 ⁻³ cm/sec				

Because the Stancill quarry is surrounded by identified topographic features and configurations, URS Corporation selected the following physical boundaries to be used in the groundwater model:

• The northern boundary of the model is located slightly north of the quarry, and is composed of Long Pond and its associated stream channels extending east and west of the pond.

- The western and southwestern boundaries in the model consist of the tidal portions of Principio Creek and Furnace Bay.
- The southern boundary of the model is the drainage basin divide that is located immediately south of the site.
- The eastern boundary of the model is the drainage basin divide located east of Mountain Hill Road.

The model boundaries encompass an area that is nearly rectangular, with dimensions approximately 3,450 feet wide by 2,800 feet long. The model assumes that once the quarry is filled with dredged materials, any discharges from the site will be to the surface waters that surround approximately two thirds of the Stancill site. The water table surface of the surficial aquifer is the upper boundary of the MODFLOW model. The base of the model is located approximately 150 feet into the bedrock, within the crystalline rock complex that underlies the unconsolidated materials of the surficial aquifer and saprolite.

The finite difference grid for the model consists of 73 rows and 71 columns at the longest and widest regions of the model area. Because the available data is distributed throughout the area being modeled, model grids were evenly spaced at 40 feet by 40 feet throughout the model area.

The groundwater model of the Stancill site consists of four layers. The top two layers of the model are located in the sedimentary units. Layer 1 initially, is mostly within the Quaternary Age deposits to calibrate the model to present day conditions. After calibration of the model, layer 1 includes the dredged material that was assumed to have been placed in the quarry. The dredged material was added to layer 1 after the model was calibrated to simulate current conditions. Layer 2 is mostly within the Cretaceous Age deposits beneath the site. Layer 3 is mostly within the saprolite zone, and layer 4 is mostly within the crystalline bedrock. To increase model efficiency, contacts between the model layers as identified above do not precisely follow the layers identified in the conceptual geologic and hydrogeologic interpretations as developed by URS Corporation. URS states that since hydraulic conductivity and other model parameters can be changed for individual cells in the model area, model areas that are approximate to the mapped geologic layers should not significantly influence the results produced by the model.

General head boundary conditions were used to represent the model boundaries with the coastal water bodies, while the river reaches were modeled using the MODFLOW river package. The model was calibrated using vertical and horizontal hydraulic conductivity values that are typical for coastal plain deposits. The maximum value for hydraulic conductivity that was used in the model of the Stancill site is 25 feet per day, which is characteristic of a clean sand material.

Sensitivity analysis was performed during model calibration. This analysis shows that the most sensitive parameter used in the model is the change in horizontal conductivity in layer 1.

URS concludes that given the data available, the model provides a consistent regional representation of the overall flow in the Stancill quarry. Further, URS concludes that it can be deduced from the MODPATH simulations that Furnace Bay would receive constituents that may become mobilized from dredged materials that are placed within the quarry.

MES examined the input parameters to the model and the assumptions that were employed by URS Corporation for the Stancill site and finds them to be reasonable. These input parameter values and assumptions are supported either by data from site specific testing, or were selected from published literature for similar materials or conditions. Based upon the assessment of the input information and assumptions, MES concludes that the model results constitute a reasonable representation of the overall groundwater flow in the Stancill quarry site that currently exists as well as the conditions that may develop after placement of dredged material in the site.

A copy of the MODFLOW Groundwater Flow Model report is included as Appendix D to this report.

7.4 MT3D Transport Model

In July 2002, URS Corporation submitted a report entitled "MT3D Transport Model Report of the Stancill Quarry Site, Cecil County, Maryland." The report details the groundwater chemical fate and transport modeling of specific indicator parameters that may be affected in the groundwater beneath the site as a result of placement of dredged material in the quarry. URS Corporation employed the model to predict the transport of chloride, Total Dissolved Solids (TDS) and iron in the groundwater. The objective of the modeling effort is to identify the potential impacts, if any that would result from the placement of dredged material in the site.

The conceptual hydrogeologic model and field investigations indicate that under current mined conditions, the groundwater at the site flows into the quarry from all sides, with the possibility for some leakage from the elevated spoil ponds. Further, the groundwater flow model anticipates that after the site is filled with dredged material, groundwater flow will be in a westerly direction towards the nearest surface water discharge point, Furnace Bay.

URS Corporation selected chloride, TDS and iron as being typical of dissolved constituents that may be mobilized from dredged material placed at the site. Once mobilized, these constituents have a high probability of entering groundwater as a constituent of the percolate, which passes through the sediments and underlying materials. Since the dredged material would be placed over the entire quarry, the constituents would be expected to be evenly distributed throughout the quarry.

Because site specific data shows varying aquifer hydraulic properties, and the vertical/horizontal extent of the placed constituents, URS determined that a three dimensional groundwater model was needed to simulate site-specific transport and to evaluate the flow of constituents in groundwater beneath the Stancill quarry. URS selected a Modular Three-Dimensional Multispecies Transport Model (MT3DMS) model for the project.

Data sources used by URS Corporation in the modeling effort included the following:

- Field and laboratory data collected from the Chesapeake Bay for prior year's Upper Bay dredging projects;
- Site maps and background site information collected during the study effort;
- Sediment test results from material collected at the Courthouse Point dredged material containment facility; and

• Leachate test results performed on material collected from the Courthouse Point site to simulate percolate water passing through dredged material.

URS Corporation initiated a solute-transport model using the calibrated MODFLOW groundwater flow model that was constructed to simulate groundwater conditions that would develop after dredged material was placed in the site. URS Corporation employed model input parameters that would provide a worst-case scenario of the potential transport of the selected parameters within the aquifers beneath the site. Only dissolved phases of chloride, TDS and iron were modeled. The models that were developed were constructed to simulate the primary transport processes, which are advection and hydrodynamic dispersion. Other transport processes, including adsorption, speciation and dissolution/precipitation were not simulated.

URS elected to use the simulated percolate concentration values that were derived from the TCLP testing of the sediment samples collected from the Courthouse Point site. Due to the aggressive nature of the leaching procedure, which includes the use of buffered acetic acid as the leaching media, the resulting constituent concentrations found in the percolate would be expected to be higher than the results derived when deionized water is used as the leaching media. Thus, considering the aggressive leaching procedure used, and the exclusion of adsorption, speciation and dissolution/precipitation effects, the model results would be expected to represent a very conservative assessment of groundwater conditions that may develop as a result of placement of dredged material in the site.

Table 7.2 below is a summary of the MT3DMS Model input parameters. The table includes a description of the parameter, the value or range of values that are available and the selected value. The table also describes the source from which the data was derived.

The origination of the model source inputs was assumed to be at a point in time 34 years in the future, when the quarry would be full of dredged material, assuming uniform placement at approximately 400,000 CY per year. In reality, groundwater influences can be expected to commence concomitant with placement of dredged material. The rate of change in groundwater quality would be expected to change as the amount of dredged material placed in the quarry increases. To be conservative, the initial and continuing input source concentration used in the model was the maximum concentration that was observed for that constituent in the simulated percolate. This fixed input concentration was then used to evaluate the constituent flow pattern and potential for off-site migration. The three constituents, chloride, TDS and Iron were modeled for their dissolved phases only in the saturated zone, using the primary transport mechanisms of advection and hydrodynamic dispersion.

The MT3DMS groundwater model incorporates the following basic general assumptions common to such models:

- A porous-media model can approximate the flow patterns in the surficial aquifer, saprolite and bedrock;
- All contaminants are in a dissolved form;
- Density effects are ignored;
- Uniform anisotropy is assumed;
- Dissolved contaminants do not hinder advective groundwater movement;
- Recharge and constituent source input are constant through time; and

• Leachate test results provide conservative estimates of future percolate concentrations.

Table 7.2 - MT3DMS Model Input Parameters

Parameter	Value or Range	Value Selected	Units	Primary Source
Model input Concentration: Chloride TDS Iron	LT 0.39 - 24.8 4,204 - 4,441 LT 0.5 to 0.66	24.8 4,441 0.66	Mg/l (All species)	Leachate tests of sediment samples (all species)
Effective Porosity Unconfined	0.10 to 0.15	0.15		Literature values
Effective Porosity – Confined	0.00005 to 0.005	0.0002		Literature values
Longitudinal Dispersivity (Ld)	20 to less than 200	30	Feet	Literature values
Transverse Dispersivity	1% to 10% of Ld	3	Feet	Literature values
Vertical Dispersivity	1% to 10% of Ld	0.3	Feet	Literature values
Diffusion Coefficient Iron	1.72e ⁻⁴ to 2.0 e ⁻⁴	0	Sq. ft/day	Literature values Considered negligible
Coefficient of Retardation		0		Assumes no retardation
Adsorption Coefficient		0		Assumes no adsorption
Degradation rate – Dissolved		0		Assumes no decay because Constituents are inorganic

Model calibration is intended to provide reasonable estimates for uncertain model input data such that model predictions match observed data to the degree possible, given site conditions and the distribution of site chemical data. Initial Dispersivity is typically estimated based upon the shape of the contaminant plume. Since no material has been placed in the quarry, there is no current plume of contaminants, and the source area will include the entire quarry area. In addition, site-specific data on confined and unconfined aquifer effective porosity. Therefore, appropriate values were selected from published literature.

Dispersivity and effective porosity values were modified on an iterative manner in order to produce simulated plumes of a reasonable shape, given the characteristics of the site. The model was considered to be calibrated when the shape and concentrations of the simulated chloride, TDS and Iron distributions approximated those assumed using "best engineering judgment."

The calibrated transport model was then used to predict future constituent concentrations based upon the worst-case scenario. For each of the transport model runs, the model solution behavior was checked for the following:

- Convergence of flow and transport solutions;
- Stability; and
- Mass balance.

The flow and transport model runs were converged to less than 5% mass error, in general. URS Corporation states that these solution errors have a negligible influence on the predicted results because of the uncertainties in the model input data.

Model sensitivity analysis was conducted by varying the dispersivity and effective porosity values and evaluating the impacts of these changes on model results. The results of the sensitivity analysis showed that the equilibrium concentrations of the modeled constituents measured at a downgradient location are most sensitive to changes in dispersivity. A change by a factor of 3.3 in dispersivity results in a 14 percent increase in the constituent equilibrium concentration for chloride at the downgradient observation point.

The simulation results for the three constituents modeled are presented in Table 7.3. The observation point for the model results is located at the southwest boundary of the property, adjacent to Principio Creek where it enters Furnace Bay. The maximum concentration of the predicted constituents in the groundwater is found in Layer 2, which is within the Cretaceous Age sedimentary deposits beneath the site. The model results predict that the concentration of TDS in the groundwater within Layer 2 after placement of dredged material would increase over time from a range of 100 to 500 mg/l to a maximum of 3,700 mg/l within the site boundaries. Chloride levels would rise from approximately 7 mg/l to 20.6 mg/l within the site boundaries, and Iron would increase from approximately 0.2 mg/l to .55 mg/l.

The model predicts that these steady-state maximum concentrations in the groundwater would be experienced within 8 to 10 years after placement of the dredged material. URS Corporation reiterates the fact that the aggressive nature of the TCLP procedure results in input constituent concentrations that overestimate the concentrations that will likely be leached from the dredged material. Further, because the model does not consider adsorption and chemical precipitation of Iron and TDS as groundwater passes through the soil media, the model results are conservative. The actual concentrations of constituents in the groundwater would be expected to be lower that those predicted under the worst-case scenario produced by the model.

Secondary Maximum Contaminant Level (SMCL) guideline concentrations for various constituents have been established under the provisions of the Safe Drinking Water Act. The SMCL guidelines apply to constituents that affect the aesthetic qualities of drinking water, such as taste, color or odor. Drinking water with constituents at levels above the SMCL may not be pleasant to drink but are not recognized as causing health problems. The SMCL for TDS is currently 500 mg/l. Therefore, all of the predicted values for TDS exceed the current guideline. The current SMCL for chloride is 250 mg/l. None of the predicted values for chloride approach this limit. The SMCL for iron is currently 0.3 mg/l. URS Corporation reports that the average background concentration of dissolved iron in groundwater in the general area is 17 mg/l. Therefore, a predicted increase in the iron concentration of 0.55 mg/l in

groundwater would not be considered to be a significant impact. The only significant impact to groundwater that was observed by the various model runs is the predicted increase in the concentration of TDS.

Table 7.3 - Model Results Summary

Modeled	Input	Predicted Concentration					
Constituent	Concentration	Layer 1	Layer 2	Layer 3	Layer 4		
Chloride	24.8 mg/l	15.9 mg/l	20.6 mg/l	15.9 mg/l	7.5 mg/l		
TDS	4,441 mg/l	2,820 mg/l	3,700 mg/l	2,720 mg/l	1,380 mg/l		
Iron	0.66 mg/l	0.42 mg/l	0.55 mg/l	0.41 mg/l	0.21 mg/l		

As a general rule, because of the potential for groundwater impacts resulting from surface activities, the surficial groundwater aquifer is not available for installation of potable wells. Potable wells in the area are typically sited in the deeper, protected bedrock formations. In addition, the site is located immediately proximate to an estuarine body of water. The model predicts that after the site is filled, the groundwater flow will be in the direction of Principio Creek and Furnace Bay, and that the constituents in the groundwater will enter those water bodies. No potable wells, with the exception of the production well on the Stancill site, which is used for sanitary purposes on the property, are located within the predicted impact area. The model does not predict any upgradient migration of groundwater from the site. Therefore, there is low probability of any impact to potable wells from the placement of dredged material at the site.

A copy of the MT3D Transport Model Report is included as Appendix E to this report.

8.0 Findings and Conclusions

Based upon the results of the current site assessment of the Furnace Bay property, and the groundwater flow and transport modeling effort, MES concludes the following:

- Groundwater in the vicinity of the property, under the current excavated site conditions, flows in a radial manner into the quarry site.
- Upon filling of the site with dredged material, the direction of groundwater flow in the area will change, with groundwater flowing west, in the direction of Principio Creek and Furnace Bay.
- No upgradient movement of groundwater is predicted to occur under the re-established groundwater flow regime that will develop once the site is filled with dredged material.
- With the exception of the existing production well on the site, which is used for on-site office
 and shop activities, no potable wells currently exist in the downgradient area between the
 Stancill site and Principio Creek / Furnace Bay.
- Because of the location of the site immediately proximate to Principio Creek and Furnace Bay, there is little or no probability that a potable well would be sited in the future within the downgradient area between the site and Principio Creek / Furnace Bay.
- Based upon the current site topography, the Stancill site presently offers an air space capacity of 7.4 MCY if filled to an elevation of +90, or up to 10.4 MCY of air space capacity using dewatered dredged material placed, compacted and contoured over the site with 3:H: 1V side slopes and benches, constructed to a maximum elevation of +158 above MSL.
- Groundwater quality impacts in would be experienced if dredged material were placed in the site. Groundwater modeling results indicate that TDS levels in groundwater at the site are predicted to rise to a maximum expected concentration of 3,700 mg/l; chloride levels in the groundwater are predicted to rise to an expected maximum concentration of 20.6 mg/l; and Iron concentrations in groundwater are predicted to increase to an expected maximum concentration of 0.55 mg/l.
- The predicted maximum concentration of 3,700 mg/l for TDS exceeds the current SMCL guideline of 500 mg/l.
- The predicted maximum concentration of 0.55 mg/l for Iron in groundwater exceeds the current SMCL guidelines of 0.3 mg/l, but the increase is insignificant when compared to the current average concentration of Iron in groundwater in the area, which is 17 mg/l.
- The predicted maximum concentration of 20.6 mg/l for chloride in groundwater does not exceed the current SMCL guidelines of 250 mg/l.
- After placement of dredged material in the Furnace Bay site to a level above the elevation of groundwater in the area, any constituents leached from the dredged material that enters the

groundwater will flow in the direction of and express themselves in Principio Creek and Furnace Bay.

- With the exception of the existing production well on the site, no existing upgradient or downgradient potable wells were identified that would potentially be affected by placement of dredged material in the Stancill site.
- The predicted values were obtained from the groundwater model when conservative water quality input data based upon TCLP percolate date were used as input data. Actual groundwater concentrations are expected to be less than the predicted values.
- The predicted water quality impacts to the groundwater are expected to manifest themselves within 10-years of placement of dredged material in the site.

Based upon the results of the current site assessment of the Furnace Bay property, and the groundwater flow and transport modeling effort, prospective effects to groundwater from placement of dredged material at the Stancill's Inc. site at Furnace Bay would not result in predicted conditions that would preclude the site's further consideration as a potential upland placement site for management of dredged material.

APPENDIX A

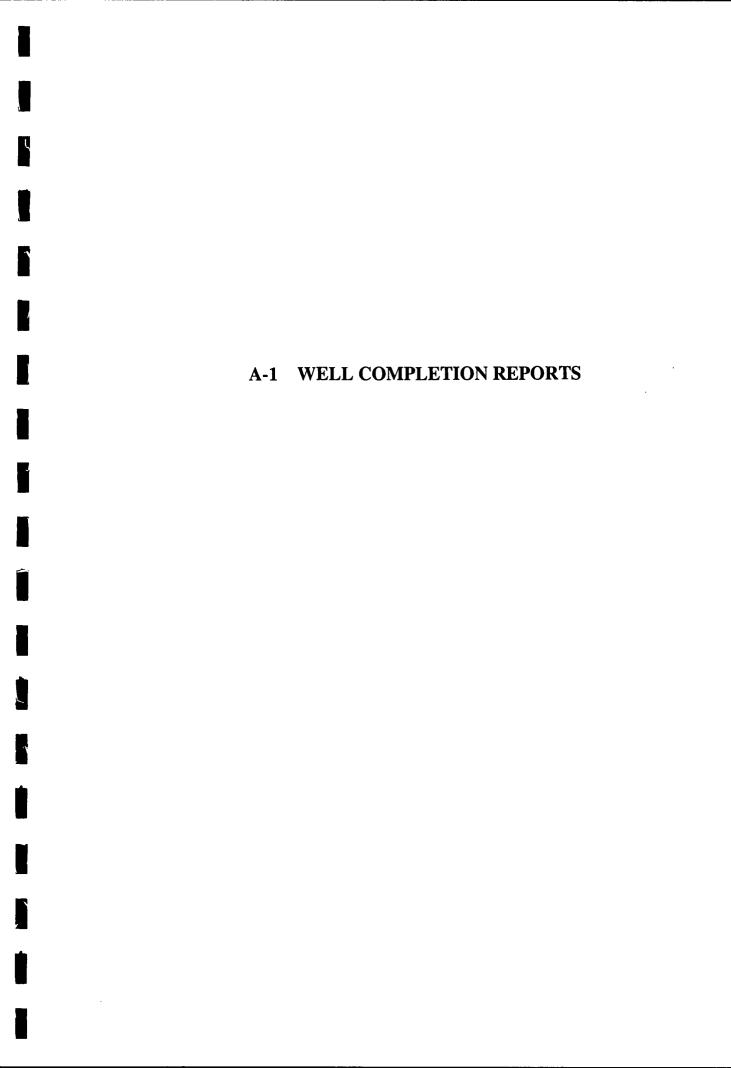
A-1 Well Completion Reports

A-2 Water Level Readings

A-3 Permeability Tests

A-4 Well Inventory

A-5 Lab Analyses



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WELL	LOG			GROUTING RECORD YES NO	C 3
Not required for		dis		WELL HAS BEEN GROUTED (Circle Appropriate Box)	1 2 PUMPING TEST
STATE THE KIND OF FORMATI COLOR, DEPTH, THICKNESS	ONS PENE	TRATED.	THEIR RING	TYPE OF GROUTING MATERIAL (Circle one)	HOURS PUMPED (nearest hour)
DESCRIPTION (Use	FE	ΕĪ	check if water	CEMENT CIM BENTONITE CLAY BC	8 9
additional sheets if needed)	FROM	то	bearing	NO. OF BAGS 4 NO. OF POUNDS 400	PUMPING RATE (gal. per min.)
occur, silty				DEPTH OF GROUT SEAL (to nearest foot) 1 7	METHOD USED TO MEASURE PUMPING RATE
as no within		1/2	,	from () ft. to /5 ft.	
of gravel	0	10		48 TOP 52 54 BOTTOM 58 (enter 0 if from surface)	WATER LEVEL (distance from land surface)
T				casing CASING RECORD	BEFORE PUMPING 17 20 ft.
Drown Sound	15	36		types ST CO	WHEN PUMPING : ft.
- Clay	,0	35		appropriate code PL OT	22 25
1 1				below PLASTIC OTHER	TYPE OF PUMP USED (for test) A air P piston T turbine
				MAIN Nominal diameter Total depth CASING top (main) casing of main casing	A air P piston T turbine
				TYPE (nearest inch)! (nearest foot)	C centrifugal R rotary O (describe below)
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				60 61 63 64 66 70	J jet S submersible
				A diameter depth (feet) C inch from to	
				¢	PUMP INSTALLED DRILLER INSTALLED PUMP YES NO
				Ŝ	(CIRCLE) (YES or NO)
		ł		å	IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.
· ·				screen type SCREEN RECORD	TYPE OF PUMP INSTALLED
7	Į			or open hole ST BR HO	PLACE (A,C,J,P,H,S,1,O) 29 IN BOX 29.
				insert STEEL BRASS OPEN Appropriate BRONZE HOLE	CAPACITY: GALLONS PER MINUTE
				code below PL OT PLASTIC OTHER	(to nearest gallon) 31 35
		1		PLASTIC OTHER	PUMP HORSE POWER 37 41
NUMBER OF UNSUCCESS	71. 14651	s: //	200	C 2 DEPTH (nearest ft.)	PUMP COLUMN LENGTH (nearest ft.)
NUMBER OF UNSUCCESS	FUL WELL	V85	700	15 25	ASING HEIGHT (circle appropriate box
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THIS WELL WILL NOT REPLACE AN EXISTING WELL THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS D THIS WELL WILL DEEPEN AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED (IF AVAILABLE) 41 NOT to be filled in by driller (MDE OR COUNTY USE ONLY) APPROP. PERMIT NUMBER G A P S4 PERMIT NO. CE 94 4933 PERMIT NO. CE 94 4933 PERMIT NO. TO NEARBY TOWNS AND ROADS AND GIVE RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEARBY TOWNS AND ROADS AND GIVE RELATION TO NEARBY TOWNS AND ROADS AND GIVE RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEARBY TOWNS AND ROADS AND GIVE RELATION TO NE	REPLACEMENT OR DEEPENE	D WELLS	000
THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS THIS WELL WILL DEEPEN AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED (IF AVAILABLE) 41 Not to be filled in by driller (MDE OR COUNTY USE ONLY) APPROP. PERMIT NUMBER G A P FERMIT No. CE 94 4933 PERMIT No. CE 94 4933 PERMIT No. CE 94 4933		WELL N	
ABANDONED AND SEALED THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS D THIS WELL WILL DEEPEN AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED (IF AVAILABLE) 41 Not to be filled in by driller (MDE OR COUNTY USE ONLY) APPROP. PERMIT NUMBER G A P 54 CE- 94 4933 PERMIT No. CE- 94 4933 PERMIT No. 70 71 70 72 74 75 76 77 78 79	THE WELL WILL BEDLACE A WELL THAT WILL	DRAW A SKETCH	BELOW SHOWING LOCATION OF WELL IN
THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS THIS WELL WILL DEEPEN AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED (IF AVAILABLE) 41 Not to be filled in by driller (MDE OR COUNTY USE ONLY) APPROP. PERMIT NUMBER GAP 63 PERMIT No. CE 94 4933 PERMIT No. CE 94 4933	ABANDONED AND SEALED		ARBY TOWNS AND ROADS AND GIVE WELL TO NEAREST ROAD JUNCTION
AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS D THIS WELL WILL DEEPEN AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED (IF AVAILABLE) 41 Not to be filled in by driller (MDE OR COUNTY USE ONLY) APPROP. PERMIT NUMBER G A P 54 PERMIT No. CE 94 4933 PERMIT No. CE 94 4933	THE WELL WILL DEPLACE A WELL THAT WILL	L BE USED	00
D THIS WELL WILL DEEPEN AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED (IF AVAILABLE) 41 Not to be filled in by driller (MDE OR COUNTY USE ONLY) APPROP. PERMIT NUMBER G A P 63 PERMIT No. CE 94 4933 PERMIT No. CE 94 4933	20 S AS A STANDRY-CONTACT LOCAL APPROVING	AUTHURITY	MECESS KILL
PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED (IF AVAILABLE) 41 Not to be filled in by driller (MDE OR COUNTY USE ONLY) APPROP. PERMIT NUMBER GAP 63 PERMIT No. CE 94 4933 PERMIT No. CE 94 4933	D THIS WELL WILL DEEPEN AN EXISTING WELL		BX 31 7 2
Not to be filled in by driller (MDE OR COUNTY USE ONLY) APPROP. PERMIT NUMBER GAP 63 PERMIT No. CE 94 4933 PERMIT No. CE 94 4933		EEPENED N	ρ_{Z+1}
APPROP. PERMIT NUMBER		52	
APPROP. PERMIT NUMBER	Not to be filled in by driller (MDE OR COU	INTY USE ONLY)	
APPROP. PERMIT NUMBER 54 63 PERMIT No. CE 94 4933 PERMIT No. 70 71 72 75 76 77 78 79			: *
PERMIT No. CE- 94- 4933	ADDDOD DERMIT NUMBER	A P 63	
PERMIT No. 70 71 72 72 72 74 75 76 77 78 79			12
	PERMIT No. 70 71 72 7		

c1 03943	SEQUENC (MDE USE		STATE OF MARYLAND	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
1 2 3 (THIS NUMBER IS TO BE PUI IN COLS. 3-6 ON ALL CARDS			WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE TYPE	COUNTY NUMBER Test - PZ-2 Stancill
ST/CO USE ONLY DATE Received	DATE WELL	COMPL		PERMIT NO. FROM "PERMIT TO DRILL WELL"
8 13	<u> </u>	<u> 23-01</u>	22 () 28 (TO NEAREST FOOT)	CE 94 4934 28 29 30 31 32 33 34 35 36 37
	roncillo	/ac	A 1 1 1 2 1 Srat name /A	entre de la constant
STREET OR RFD SUBDIVISION	411/	You uta	SECTION	KRYVI(1) & MO 21903
WELL L Not required for			GROUTING RECORD WELL HAS BEEN GROUTED (Circle Appropriate Roy)	C 3
STATE THE KIND OF FORMATK COLOR, DEPTH, THICKNESS A		THEIR	(Circle Appropriate Box) TYPE OF GROOTING MATERIAL (Circle one)	PUMPING TEST
DESCRIPTION (Use additional sheets if needed)	FEET TO	check if water	CEMENT CIM BENTONITE CLAY BC	HOURS PUMPED (nearest hour)
It. brown send	10	bearing	NO. OF BAGS 48 NO. OF POUNDS \$\frac{35}{200} \\ GALLONS OF WATER \(\frac{4}{3} \)	PUMPING RATE (gal. per min.)
and deaner	05 0	\	DEPTH OF GROUT SEAL (to nearest foot)	METHOD USED TO MEASURE PUMPING RATE
			from 48 TOP 52 ft. to 54 BOTTOM 58 ft. (enter 0 if from surface)	WATER LEVEL (distance from land surface)
It brown sitty	2040	1	casing CASING RECORD	BEFORE PUMPING 17 20 ft.
Jound /	2010	•	insert appropriate STEEL CONCRETE	WHEN PUMPING 22 25 ft.
			below PLASTIC OTHER	TYPE OF PUMP USED (for test)
			MAIN Nominal diameter Total depth CASING top (main) casing of main casing	A air P piston T turbine
			TYPE (nearest inch)! (nearest foot)	C centrifugal R rotary O (describe below)
			60 61 63 64 66 70 E OTHER CASING (if used)	J jet S submersible
			diameter depth (feet) H inch from to	PUMP INSTALLED
			\$ \$	DRILLER INSTALLED PUMP YES (NO)
			Ř ————————————————————————————————————	IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.
			screen type SCREEN RECORD or open hole CIT RID	TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) 29
			insert appropriate STEEL BRASS OPEN BRONZE HOLE	IN BOX 29. CAPACITY:
			code below PL OT PLASTIC OTHER	(to nearest gallon) 31 35
			C 2 DEPTH (nearest ft.)	PUMP HORSE POWER 37 41
NUMBER OF UNSUCCESSFU	L WELLS:	UC	1 PL 30 40	PUMP COLUMN LENGTH (nearest ft.)
WELL HYDROFRACTURED	Y		A 8 9 11 15 17 21	(circle appropriate box and enter casing height)
CIRCLE APPROPR A WELL WAS ABANDONE	D AND SEALED	$\overline{}$	H 2 23 24 28 30 32 36 S	LAND SURFACE
E ELECTRIC LOG OBTAINE			C 3 R 38 38 41 45 47 51	49 below) (ried est)
P TEST WELL CONVERTED WELL HEREBY CERTIFY THAT THIS WELL			E SLOT SIZE 1.010 2 3	LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH AS
ACCORDANCE WITH COMAR 28.04.04 IN CONFORMANCE WITH ALL CONDI CAPTIONED PERMIT, AND THAT TH	"WELL CONSTRUCT TIONS STATED IN TO E INFORMATION PR	TON" AND HE ABOVE HESENTED	DIAMETER OF SCREEN (NEAREST INCH)	N BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS
HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.			from to	THAN TWO DISTANCES (MEASUREMENTS TO WELL)
DBHCEBS-LIC. NO. M DD 4 1			GRAVEL PACK	Access Rd
DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)			NSERT F N BOX 68 68 MDE USE ONLY	1. Mtw.Hilled
LIC. NO.1		_ '	(NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W.Q.	100
CITE CHEST AGE	ALD A COLO		70	P7-2 0 (-200-)
SITE SUPERVISOR (sign. of or responsible for sitework if different			TELESCOPE LOG 74 75 76	V7-2

(MDE USE ONLY) PERMIT	STATE PERMIT NUMBER TO DRILL WELL SE print or type STATE PERMIT NUMBER CE— 94 — 4934 TO fill in this form completely TO DRILL WELL
Date Received (APA) 8 MM DO YY 13 Last Name Owner First Name 34 Street or RFD 55 70 Town 70 State 72 Zip 76 DRILLER INFORMATION	B 3 LOCATION OF WELL P2-2 8 COUNTY 21 23 SUBDIVISION SECTION 44 46 LOT 48 50 52 NEAREST TOWN MILES FROM TOWN (enter 0 if in lown) 71 MILES FROM TOWN (enter 0 if in lown)
Driller's Name 76 License No. 81 Firm Name Address Signature Date B 2 WELL INFORMATION APPROX. PUMPING RATE (GAL PER MIN.) AVERAGE DAILY QUANTITY NEEDED (GAL PER DAY) 12 AVERAGE DAILY QUANTITY NEEDED 14 20	DIRECTION OF WELL FROM 11 NEAR WHAT ROAD 30 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) WEST SEAST 34 7 37 SOUTH DISTANCE FROM ROAD ENTER FT OR MI 38 39 TAX MAP: BLK: PARCEL
USE FOR WATER (CIRCLE APPROPRIATE BOX) DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION INDUSTRIAL, COMMERICIAL, DEWATERING PUBLIC WATER SUPPLY WELL T TEST, OBSERVATION, MONITORING G GEO-THERMAL	NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL COUNTY NAME STATE SIGNATURE DATE ISSUED 10-17-01 43 MM DD W 48 CO SIGNATURE NORTH GRID 50 SS COUNTY NO. 10-16-02 47 10-16-02 10-16-02 10-16-02 10-16-02 10-16-02 10-16-02 10-16-02 10-16-02 10-16-02 10-16-02
APPROXIMATE DIAMETER OF WELL METHOD OF DRILLING (circle one) BORED (or Augered) JETTED Jetted & DRIV. 30 AIR-ROTary AIR-PERcussion ROTARY (Hydraulic Rot other) Other	ONT FROM THE MAP HERE
Not to be filled in by driller (MDE OR COUNTY USE ONLY APPROP. PERMIT NUMBER G A P 6	DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION A C S S A Q F Z Z

COCCIAL COMPITIONIC

	c 1 03944 SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
	1 2 3 6 (THIS NUMBER IS TO BE PUNCHED	WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE TYPE	COUNTY NUMBER Test PZ-3 Stancills
	IN COLS. 3-6 ON ALL CARDS) ST/CO USE ONLY DATE WELL COMPLE		PERMIT NO. FROM "PERMIT TO DRILL WELL"
	DATE Received	ς 22 <u>2</u> 0 28	CE- 94 - 4935 28 29 30 31 32 33 34 35 38 37
_	8 13 15 2	(TO NEAREST FOOT)	28 29 30 31 32 33 34 33 36 37
	OWNER STANCILLS INC.	First name TOURS DE L	PRIVILLE MID 21903
	STREET OR RFD 499 TOUNTALN H.	TOWN FCK	LOT
	SUBDIVISION	GROUTING RECORD (985, NO	CI3
	WELL LOG Not required for driven wells	WELL HAS BEEN GROUTED (Circle Appropriate Box)	1 2 PUMPING TEST
	STATE THE KIND OF FORMATIONS PENETRATED, THER COLOR, DEPTH, THICKNESS AND IF WATER BEARING	CEMENT CM BENTONITE CLAY BC	HOURS PUMPED (nearest hour)
	DESCRIPTION (Use additional sheets if needed) FROM TO bearing	NO. OF BAGS NO. OF POUNDS 3700	PUMPING RATE (gal. per min.)
2	It. brown salty	GALLONS OF WATER DEPTH OF GROUT SEAL (to nearest foot)	METHOD USED TO MEASURE PUMPING RATE
	Sond O CO V	from 48 TOP 52 ft. to 54 BOTTOM 58 ft.	WATER LEVEL (distance from land surface)
		(enter 0 if from surface) Casing CASING RECORD	BEFORE PUMPING 17 20 ft.
	·	types ST CO	WHEN PUMPING 22 25 ft.
ند		appropriate code pelow PL OT	TYPE OF PUMP USED (for test)
		MAIN Nominal diameter Total depth	A air P piston T turbine
2		CASING top (main) casing of main casing TYPE (nearest inch)! (nearest foot)	C centrifugal R rotary O cother (describ below)
		<u>60 61 63 64 56 70</u>	J jet S submersible
		E OTHER CASING (if used) A diameter depth (feet)	य य
		C inch from to	PUMP INSTALLED DRILLER INSTALLED PUMP YES NO
· 		A S 1	(CIRCLE) (YES or NO)
	-	N G	IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.
·		screen type or open hole ST BR HO	TYPE OF PUMP INSTALLED PLACE (A.C.J.P.R.S.T.O) IN BOX 29.
		insert STEEL BRASS OPEN appropriate BRONZE HOLE	CAPACITY: GALLONS PER MINUTE
		below PLASTIC OTHER	(to nearest gailon) 31 3
			PUMP HORSE POWER 37 4
—	NUMBER OF UNSUCCESSFUL WELLS: 00 NE	DEPTH (nearest ft.)	PUMP COLUMN LENGTH (nearest ft.)
	yes no	E 1 1 15 17 21	CASING HEIGHT (circle appropriate box and enter casing height)
-	WELL HYDROFRACTURED Y	C ₂	+ above LAND SURFACE
	CIRCLE APPROPRIATE LETTER A WELL WAS ABANDONED AND SEALED	H 23 24 26 30 32 36 S	below 2.5 (neares foot)
	WHEN THIS WELL WAS COMPLETED	C 3 R 38 39 41 45 47 51	49 50 51
	P TEST WELL CONVERTED TO PRODUCTION WELL	E SLOT SIZE 1 . O I U 2 3	LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH AS
Ì	I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN	DIAMETER 7 (NEAREST	BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS
	ACCORDANCE WITH ALL CONDITIONS STATED IN THE ABOVE IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF METERS OF	56 60	THAN TWO DISTANCES (MEASUREMENTS TO WELL)
	HEREN IS ACCURATE AND COMPLETE TO THE SEAT OF	from to	N (market)
	DRILLERS LIC. NO. 1 M (D) 4 1	GRAVEL PACK F WELL PARLIED WAS EL CHANGE WELL	Acital Roll
-	DRILLERS SIGNATURE	BISERT FIN BOX 68 68	8n1 MtoHill RI
	(MUST MATCH SIGNATURE ON APPEARION)	MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q	1 801 - INDHIN
	ЦС. NO.1 D 1		310
1	SITE SUPERVISOR (sign. of driller or journeyman	70 72 74 75 76 TELESCOPE LOG OTHER DATA	PZ-3 .
	responsible for sitework if different from permittee)	TELESCOPE INDICATOR OTHER DATA	•

araurius vo	E OF MADYLAND	STATE PERMIT NUMBER
A MOTHE ONLY	E OF MARYLAND	d5 - 04 - 4005
PERMI	T TO DRILL WELL	CE - 94 - 4935
plea	se print or type	fill in this form completely 79
Date Received (APA)	B 3 / 1	LOCATION OF WELL
OWNER INFORMATION		PZ-3
8 MM DO YY 13	8 COUNTY	21
CAKINE BR		42
15 Last Name Owner First Name 34	23 SUBDIVISION	42
- 4. playors with M	J SECTION L	LOT [] 48 50
Street or RFD 55	44 46	46 50
Pidacher all	1 + T / X / 3/16/	71
57 Town 70 State 72 Zip 76	52 NEAREST TOWN	
DRILLER INFORMATION	MILES FROM TOWN (enter	er 0 if in town)
I proper to phone MICDUY	B 4	
Driller's Name 76 License No. 81	1 2	JUDITON XIVIKI
- CARTA ALVIEN INC	DIRECTION OF WELL FROM TOWN (CIRCLE BOX)	11 NEAR WHAT ROAD 30
Firm Name	TOTAL COLOR	NORTH
Transfer to the state of the st		ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
Address / // // // // // // // // // // // //		WEST STEAM
Date Date	W TOWN E	34 37() 37 SOUTH
Signature	3 77 3	DISTANCE FROM ROAD
1 2 APPROX. PUMPING RATE	E E	ENTER FT OR MI 38 39
(GAL PER MIN.) 8,	S S	TAX MAP: 35 BLK: 2 PARCEL
AVERAGE DAILY QUANTITY NEEDED 14 20		
USE FOR WATER (CIRCLE APPROPRIATE BOX)	NOT T	O BE FILLED IN BY DRILLER TH DEPARTMENT APPROVAL
	HEALI	U DEPARTMENT AFFROYAL
DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION	Cecil Cecil	COUNTY NO
FARMING (LIVESTOCK WATERING & AGRICULTURAL	COUNTY NAME	COUNTY NO.
IRRIGATION	STATE SIGNATURE	INSERT S 41
2 INDUSTRIAL, COMMERICIAL, DEWATERING	DATE ISSUED	7/10/10 10-16-02
P PUBLIC WATER SUPPLY WELL	1C-17-C3	CO SIGNATURE EXP. DATE
TEST, OBSERVATION, MONITORING	NORTH / >	EAST. ILLY A
G GEO-THERMAL	GRID 6.5 50	0 0 0 GRID / 1 0 0 0 55 63
		ES OF
→	SHOW MAJOR FEATURE BOX & LOCATE WELL	
APPROXIMATE DEPTH OF WELL 24 28	WITH AN X	
NE .	SOURCES OF DRILLING	WATER
APPROXIMATE DIAMETER OF WELLIN	CH 1./// U/C - 11.	
METHOD OF DRILLING (circle one)	3.	
BORED (or Augered) JETTED Jetted & DRN		
30 AIR-ROTary AIR-PERcussion ROTARY (Hydraulic Ro	tary) WRITE THE BOX NUMB	ER V
37 CABLE REVerse-ROTary DRIve-Po		\
	1100	
REPLACEMENT OR DEEPENED WELLS	E 10 10	000
(CIRCLE APPROPRIATE BOX)	12/1	000
N THIS WELL WILL NOT REPLACE AN EXISTING WELL	N 650	
THIS WELL WILL REPLACE A WELL THAT WILL BE	DRAW A SKETCH BELC	W SHOWING LOCATION OF WELL IN I
ABANDONED AND SEALED	DISTANCE FROM WELL	TO NEAREST ROAD JUNCTION
THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY		1 1
FOR POLICY ON STANDBY WELLS	A la	
THIS WELL WILL DEEPEN AN EXISTING WELL.	301	1
PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED	N OUV	
(IF AVAILABLE) 41	A (7)	-3 70'
Not to be filled in by driller (MDE OR COUNTY USE ONLY	fz	13
CAR	12.3	
	37	14.
DEDMIT NO. CE- 94- 49:		5
PERMIT No. 70 71 72 73 74 75 76 77	78 79	
SPECIAL CONDITIONS		

03945		QUENCE DE USE C		STATE OF MARYLAND	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
1 2 3 6	JNCHED			WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE TYPE	COUNTY NUMBER Test PZ-4 Stancills
T/CO USE ONLY	DAT	E WELL	COMPL		PERMIT NO. FROM "PERMIT TO DRILL WELL"
DATE Received	1	/0 -	24-0	22 (15) 26 m (TO NEAREST FOOT)	CF 94 4936 28 29 30 31 32 33 34 35 36 37
DWNER	314	well	5/K	that the first nerine for the first nerine	200
STREET OR RFD	last neme	449	400 UTA	SECTIONTOWN	CKY VILLE, MD 21803
UBDIVISION	LOG			GROUTING RECORD 100	C[3]
Not required fo	r driven w			WELL HAS BEEN GROUTED (Circle Appropriate Box)	1 2 PUMPING TEST
STATE THE KIND OF FORMAT COLOR, DEPTH, THICKNESS			THEIR RING check	TYPE OF GROUTING MATERIAL (Circle one) CEMENT C M BENTONITE CLAY B C	HOURS PUMPED (nearest hour)
DESCRIPTION (Use additional sheets if needed)	FROM	το	if water bearing	NO. OF BAGS NO. OF POUNDS	PUMPING RATE (gal. per min.)
t. brown sity	0	ಕಿ	/	GALLONS OF WATER	METHOD USED TO MEASURE PUMPING RATE
Band		حوا		from 48 TOP 52 ft. to 34 BOTTOM 58 ft.	WATER LEVEL (distance from land surface)
1				(enter 0 if from surface) CASING RECORD	BEFORE PUMPING 17 20 ft.
			į	types insert appropriate STEEL CONCRETE	WHEN PUMPING 22 25 ft.
				code below PLASTIC OTHER	TYPE OF PUMP USED (for test)
				MAIN Nominal diameter Total depth CASING top (main) casing of main casing	A air P piston T turbine
				TYPE (nearest inch)! (nearest foot)	C centrifugal R rotary (describe below)
	}			60 61 63 64 66 70	jet Submersible
	1			E OTHER CASING (if used) A diameter depth (feet) C inch from to	PUMP INSTALLED
· •				G []	DRILLER INSTALLED PUMP YES (NO) (CIRCLE) (YES or NO)
				N	IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.
1				screen type or open hole STBRHO	TYPE OF PUMP INSTALLED PLACE (A.C.J.P,R,S,T,O) 29
4				insert appropriate BRONZE HOLE	IN BOX 29. CAPACITY: GALLONS PER MINUTE
				code below PL OT OTHER	(to nearest gallon) 31 35
				C 2 DEPTH (nearest ft.)	PUMP HORSE POWER 37 41 PUMP COLUMN LENGTH
NUMBER OF UNSUCCESS	FUL WEL	rs: <u>//</u> (JN,	1,29 15 25	(nearest ft.)
WELL HYDROFRACTURED)	Yes	N	E 8 9 11 15 17 21	CASING HEIGHT (circle appropriate box and enter casing height)
CIRCLE APPRO	NED AND	SEALED		H 2 23 24 26 30 32 38 S	LAND SURFACE LAND SURFACE (nearest)
WHEN THIS WELL WA	S COMPLI	TED		C 3 R 38 39 41 45 47 51	below) (1) (foot)
P TEST WELL CONVERT		ODUCTIO	N	E SLOT SIZE 1 () 2 3	LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH AS
I HEREBY CERTIFY THAT THIS W ACCORDANCE WITH COMAR 26.0 IN CONFORMANCE WITH ALL CO	MOTTONS	CONSTRU	THE ABOVE	DIAMETER (NEAREST INCH)	BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS
CAPTIONED PERMIT, AND THAT HEREIN IS ACCURATE AND CONOWLEDGE.	THE-IND-C	HUMAIR NI	THE SERVICE	ss 60 from to	THAN TWO DISTANCES (MEASUREMENTS TO WELL)
DRILLERS LIC, NO. 1 MEL D			21.	GRAVEL PACK	ACCIESS Rd Mts.
DRILLEERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)				WAS FLOWING WELL INSERT F IN BOX 68 68 MDE USE ONLY	11/N.
LIC. NO.		D		(NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q	115' Rd
1				70 72	(A) €500'>
SITE SUPERVISOR (sign.	of driller	or journe	yman '**	TELESCOPE LOG 74 75 76	<u> </u>

EMERGENOTITEME NO TO

		SEQUENCE NO. (MIDE USE ONLY)	STATE OF MARYLAND WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED. COUNTY
	(THIS NUMBER IS TO BE PUNCHE IN COLS. 3-6 ON ALL CARDS)		PLEASE TYPE	NUMBER Test PZ-5 Stancills
	DATE Received	ATE WELL COMPI	r. 22 ⊃∩ 26	FROM "PERMIT TO DRILL WELL" CE - 94 - 4937
7	8 13	10 - 23 - 0	20 (TO NEAREST FOOT)	28 29 30 31 32 33 34 35 36 37
ď	OWNER	STANCITO	INC PAR PARTY DOR	evine carlo sucos
۳	STREET OR RFD	HG9 May	TOWN PCK	LOT
4	SUBDIVISION		GROUTING RECORD YES NO	CI3I
	Not required for driver	wells	WELL HAS BEEN GROUTED (Circle Appropriate Box)	1 2 PUMPING TEST
	STATE THE KIND OF FORMATIONS P COLOR, DEPTH, THICKNESS AND I	WATER BEARING	TYPE OF GROWTING MATERIAL (Circle one)	HOURS PUMPED (nearest hour)
	DESCRIPTION (Use additional sheets if needed) FRO	FEET check if water to bearing	CEMENT CM BENTONITE CLAY BC NO. OF BAGS NO. OF POUNDS 200	PUMPING RATE (gal. per min.)
٦	H bram oth		NO. OF BAGS NO. OF POUNDS AUD	METHOD USED TO
	tt. brown sitty	ao V	DEPTH OF GROUT SEAL (to nearest foot)	MEASURE PUMPING RATE
٩	anc		from ft. to ft. to ft. (enter 0 if from surface)	WATER LEVEL (distance from land surface)
Í			casing CASING RECORD	BEFORE PUMPING 17 20 ft.
4			types insert appropriate STEEL CONCRETE	WHEN PUMPING 22 25 FL
			code below PLSTIC OTHER	TYPE OF PUMP USED (for test)
			MAIN Nominal diameter Total depth	A air P piston T turbine
			CASING top (main) casing of main casing TYPE (nearest inch)! (nearest foot)	C centrifugal R rotary O (describe below)
			60 61 63 64 66 70	Z7 Z
			E OTHER CASING (if used) A diameter depth (feet)	27 27
			inch from to	PUMP INSTALLED DRILLER INSTALLED PUMP YES NO
			S N C	(CIRCLE) (YES or NO) IF DRILLER INSTALLS PUMP, THIS SECTION
			screen type SCREEN RECORD	MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED
ŕ			or open hole ST BR HO	PLACE (A,C,J,P,R,S,T,O) 29 IN BOX 29.
			appropriate BRONZE HOLE	CAPACITY: GALLONS PER MINUTE (to percet callon) 31 35
			below PL OTHER	(to nearest gallon) 31 35
		134136	C 2 DEPTH (nearest ft.)	PUMP COLUMN LENGTH
دند	NUMBER OF UNSUCCESSFUL W		1,70, 10 20	(nearest ft.)
	WELL HYDROFRACTURED	Y N	E 8 9 11 15 17 21 A C	CASING HEIGHT (circle appropriate box and enter casing height)
	CIRCLE APPROPRIATI		H 2 23 24 28 30 32 36 S	LAND SURFACE
	WHEN THIS WELL WAS COM	PLETED	C 3 R 38 39 41 45 47 51	below) Q 50 foot)
	P TEST WELL CONVERTED TO WELL	PRODUCTION	E SLOT SIZE 1 . O i O 2 3	LOCATION OF WELL ON LOT
È	I HEREBY CERTIFY THAT THIS WELL HAS ACCORDANCE WITH COMAR 28.04.04 "WI	ELL CONSTRUCTION" AM	DIAMETER Z (NEAREST	SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS
	IN CONFORMANCE WITH ALL CONDITION CAPTIONED PERMIT, AND THAT THE IN HEREIN IS ACCURATE AND COMPLET	KS STATED IN THE ABOVE RECEMBATION PRESENTED	OF SCREEN INCH)	THAN TWO DISTANCES (MEASUREMENTS TO WELL)
Í	KNOWLEDGE.	50 041.	GRAVEL PACK	A .
	DRILLERS LIC NO.: M	1 ll	GRAVEL PACK FF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68 68	ACC: SS Rd
	DRIVLERS SIGNATURE (MUST MATCH SIGNATURE ON AP	PLICATION	MOE USE ONLY (NOT TO BE FILLED IN BY DRILLER)	1 Tites
	LIC. NO.1	_D ·	T (E.R.O.S.) W Q	500 H. II
. خش			70 72 74 75 78	015 6-150-121
	SITE SUPERVISOR (sign. of driff responsible for sitework if differen	er or journeyman it from permittee)	TELESCOPE LOG 74 75 76 CASING INDICATOR OTHER DATA	11, 0, 100 11,

SPECIAL CONDITIONS

11 · 03947		NCE NO. SE ONLY)	STATE OF MARYLAND	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
T 2 3 6 (THIS NUMBER IS TO BE PUN	ICHED		WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE TYPE	COUNTY NUMBER Test PZ-6 Stancills
IN COLS. 3-6 ON ALL CARDS)	ELL COMPL		PERMIT NO. FROM "PERMIT TO DRILL WELL"
TE Received	j(7-23-6	22 <u>26</u> 01 (TO NEAREST FOOT)	CE - 94 - 4938 28 29 30 31 32 33 34 35 36 37
6 13	15 スレハい:	ادلک الا	~~ <u> </u>	
WNER			MAN HILL GOLDON TOWN TOK	EVMILE MD 21903
SUBDIVISION			SECTION	LOT
WELL L			WELL HAS BEEN GROUTED (Circle Appropriate Box)	C 3 PUMPING TEST
STATE THE KIND OF FORMATIC COLOR, DEPTH, THICKNESS	ONS PENETRA	TED, THEIR BEARING	TYPE OF GROUTING MATERIAL (Circle one)	HOURS PUMPED (nearest hour)
ESCRIPTION (Use iditional sheets if needed)	FEET	check if water bearing	NO. OF BAGS NO. OF POUNDS	PUMPING RATE (gal. per min.)
	7,100	002	NO. OF BAGS NO. OF POUNDS OF STATE NO. OF POUNDS OF WATER	METHOD USED TO
ft. brownsity	0 3	$\vee \mid \alpha$	DEPTH OF GROUT SEAL (to nearest foot)	MEASURE PUMPING RATE
and			from 6 to 54 BOTTOM 58 ft.	WATER LEVEL (distance from land surface)
			(enter 0 if from surface) CASING RECORD	BEFORE PUMPING 17 20 ft.
			types insert ST CO	WHEN PUMPING 22 25 ft.
			appropriate code	TYPE OF PUMP USED (for test)
		ļ	below PLASTIC OTHER	A air P piston T turbine
			CASING top (main) casing of main casing	C centrifugal R rotary O (describe
			PL 2 10	27 27 below)
	1	1	60 61 63 64 66 70 E OTHER CASING (if used)	J jet S submersible
1			A diameter depth (feet) C inch from to	PUMP INSTALLED
7			C	DRILLER INSTALLED PUMP YES (NO) (CIRCLE) (YES or NO)
4			Ğ ————————————————————————————————————	IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.
T			screen type or open hole CT RR HO	TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) 29
Ì			insert STEEL BRASS OPEN	IN BOX 29. CAPACITY:
7			(appropriate code below) BRONZE HOLE P L O T	GALLONS PER MINUTE (to nearest gallon) 31 35
			PLASTIC OTHER	PUMP HORSE POWER 37 41
	1	17/11/2	C 2 DEPTH (nearest ft.)	PUMP COLUMN LENGTH (nearest ft.)
NUMBER OF UNSUCCESS	FUL WELLS	BS AND	$\frac{1}{\epsilon} \frac{1}{2} \frac{2}{\epsilon} \frac{1}{12} \frac{1}$	EASING HEIGHT (circle appropriate box
WELL HYDROFRACTURED	· [V N	E 8 9 11 15 17 21 C 2	and enter casing height) LAND SURFACE
CIRCLE APPRO	NED AND SE	ALED	H ² 23 24 26 30 32 36 S	below 2.5 (nearest)
WHEN THIS WELL WAS	SCOMPLETE	D	C 3 R 38 39 41 45 47 51	49 50 51
P TEST WELL CONVERTI	ED TO PROD	UCTION	E SLOT SIZE 1 (010) 2 3	LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH AS
I HEREBY CERTIFY THAT THIS W	YELL HAS BEEN	CONSTRUCTED NSTRUCTION"	DIAMETER (NEAREST	BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS
ACCORDANCE WITH COMAR 28.0 IN CONFORMANCE WITH ALL CO CAPTIONED PERMIT, AND THAT HEREIN IS ACCURATE AND CO		ATION DOESEN	FD 60	THAN TWO DISTANCES (MEASUREMENTS TO WELL)
KNOWLEDGE.	MGD.	047	GRAVEL PACK	Access Rel
DRILLERS LIG. NO.1 M D D D D D D D D D D D D D D D D D D			F WELL ORALLED WAS FLOWING WELL INSERT F IN BOX 68 68	1
DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)			MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)	/ Kytoi
LIC. NO. I			T (E.R.O.S.) W Q	285
			70 72 74 75 76	PZ-6 &- 80->/Rd
SITE SUPERVISOR (sign. responsible for sitework if	. of driller or different from	journeyman n permittee)	TELESCOPE LOG MINICATOR OTHER DATA	

		STATE PERMIT NUMBER
ALDE LISE ONLY	OF MARYLAND	
1 2 3 6	TO DRILL WELL	CE- 94 - 4938
	e print or type	fill in this form completely 79
Date Received (APA)	B 3 / 10-1	LOCATION OF WELL
OWNER INFORMATION		21 22 6
8 MM DO YY 13	8 COUNTY	21 22-6
CTAKING MC	22 CLIDDIVICION	42
15 Last Name Owner - First Name 34	23 SUBDIVISION	44
36 Street or RFD 55	SECTION 44 46	LOT
Carried Mills	1- (17/1	
57 Town 70 State 72 Zip 76	52 NEAREST TOWN	71
DRILLER INFORMATION		ter 0 if in town) M 1
M D 47	MILES FROM TOWN (enl	1er 0 if in town) 73 76 77 78
Driller's Name 76 License No. 81	B 4	4.
- 15 Total 18 S. Tricke int	1 2 DIRECTION OF WELL FROM	1370/3.07. 10
Firm Name	TOWN (CIRCLE BOX)	11 NEAR WHAT ROAD 30
TRUENCE SINCE ON THE HOUSE	N N	ON WHICH SIDE OF ROAD NORTH
Address / 27	W 8 NE	(CIRCLE APPROPRIATE BOX)
10.10-01 10.10-01	- FF	WESTSTEAST
Signature Date	W TOWN E	34 2 37 SOUTH
B 2 WELL INFORMATION	· M .	DISTANCE FROM ROAD
APPROX. PUMPING RATE (GAL. PER MIN.) 8 2 1 12	Sw I Sp	ENTER FT OR MI 38 39
AVERAGE DAILY QUANTITY NEEDED	8-0 S 8-0	TAX MAP: BLK: A PARCEL
(GAL. PER DAY) 14 20	NOTT	O BE ELLED IN BY DOLL ED
USE FOR WATER (CIRCLE APPROPRIATE BOX)		O BE FILLED IN BY DRILLER TH DEPARTMENT APPROVAL
DOMESTIC POTABLE SUPPLY & RESIDENTIAL		
IRRIGATION	Cecil COUNTY NAME	COUNTY NO.
FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION	STATE	
IMMIGATION DELIVER DEL	SIGNATURE	INSERT S 41
	DATE ISSUED	10-16-02
P PUBLIC WATER SUPPLY WELL	43 MM DO YY 48	CO SIGNATURE EXP. DATE
T TEST, OBSERVATION, MONITORING	NORTH (23	000 GRID /675 000
G GEO-THERMAL	GRID 50	55 57 63
	SHOW MAJOR FEATURE	ES OF
APPROXIMATE DEPTH OF WELL	BOX & LOCATE WELL	
24 28	WITH AN X SOURCES OF DRILLING	WATER
APPROXIMATE DIAMETER OF WELL	REST	
	2.	
METHOD OF DRILLING (circle one)	3.	
BORED (or Augered) JETTED Jetted & DRIVEN	-	X
AIR-ROTary AIR-PERcussion ROTARY (Hydraulic Rotary	WRITE THE BOX NUMB	ER /
REVerse-ROTary DRIve-POIN	FROM THE MAP HERE	
other		
REPLACEMENT OR DEEPENED WELLS	E'	000
(CIRCLE APPROPRIATE BOX)	, 530	000
THIS WELL WILL NOT REPLACE AN EXISTING WELL	N	THE CHOISING LOCATION OF MELL III
THIS WELL WILL REPLACE A WELL THAT WILL BE	DRAW A SKETCH BELC	DW SHOWING LOCATION OF WELL IN TOWNS AND ROADS AND GIVE
ABANDONED AND SEALED	DISTANCE FROM WELL	TO NEAREST ROAD JUNCTION
39 LSJ AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY		the state of the s
FOR POLICY ON STANDBY WELLS	And the second s	FICE SIS P. R.
D THIS WELL WILL DEEPEN AN EXISTING WELL	PARL DE	1
PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED (IF AVAILABLE) 41 52	N	
(11 /4/10/10/10/10/10/10/10/10/10/10/10/10/10/		
Not to be filled in by driller (MDE OR COUNTY USE ONLY)	9 - 1 - 1	- <u>Z</u> 2
ADDROR DEDMIT NUMBER GAP		× I
APPROP. PERMIT NUMBER 54 63		€ 20 K
PERMIT No. CE - 94 - 4938		F71
70 71 72 73 74 75 76 77 78	79	140

SPECIAL CONDITIONS

1 03948 SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND WELL COMPLETION REPORT	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
1 2 3 (THIS NUMBER IS TO BE PUNCHED	FILL IN THIS FORM COMPLETELY	COUNTY NUMBER Test PZ-7 Stancills
T/CO USE ONLY ATE Received MM DO TO USE ONLY ATE RECEIVED TO USE ONLY ATE ACCEIVED TO USE ONLY ATE ACCEIVED TO USE ONLY TO US	22 () 26	PERMIT NO. FROM "PERMIT TO DRILL WELL" CE- 94 - 4939 28 29 30 31 32 33 34 35 36 37
8 13 15	20 (TO NEAREST FOOT)	
DWNER STANCING IN	UNTAN HILRO GOLDON PO	CRYVILLE MD C1903
STREET OR RFD	SECTION	LOT
WELL LOG		C 3
Not required for driven wells	WELL HAS BEEN GROUTED (Circle Appropriate Box) TYPE OF GROUTING MATERIAL (Circle one)	PUMPING TEST
STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING	CEMENT CM BENTONITE CLAY BC	HOURS PUMPED (nearest hour)
DESCRIPTION (Use FEET check if water additional sheets if needed) FROM TO bearing	75/36	PUMPING RATE (gal. per min.)
It. brown sitty	GALLONS OF WATER	METHOD USED TO MEASURE PUMPING RATE
10 20 1	DEPTH OF GROUT SEAL (to nearest foot)	WATER LEVEL (distance from land surface)
	from 48 TOP 52 ft. to 54 BOTTOM 58 ft. (enter 0 if from surface)	BEFORE PUMPING 18.
▲	casing CASING RECORD	BEFORE FUMFING 17 20
	types insert STEEL CONCRETE	WHEN PUMPING 22 25 ft.
	code PL OT	TYPE OF PUMP USED (for test)
	Marinel dispersion Total denth	A air P piston T turbine
	CASING top (main) casing of main casing (nearest inch)! (nearest foot)	C centrifugal R rotary Office (describe below)
	60 61 63 64 66 70	J jet S submersible
7	E OTHER CASING (if used)	27 27
	diameter depth (feet) C inch from to C	PUMP INSTALLED DRILLER INSTALLED PUMP (CIRCLE) (YES or NO)
	S N G	IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.
	screen type SCREEN RECORD	TYPE OF PUMP INSTALLED ———————————————————————————————————
	or open hole ST BR HO	IN BOX 29.
	appropriate BRONZE HOLE	GALLONS PER MINUTE (to nearest gallon) 31 35
_	below PLASTIC OTHER	PLIMP HORSE POWER
	C 2 DEPTH (nearest ft.)	PUMP COLUMN LENGTH
NUMBER OF UNSUCCESSFUL WELLS:	20 10 20	(nearest ft.) A3 47 CASING HEIGHT (circle appropriate box
WELL HYDROFRACTURED YES N	E 1 15 17 21	and enter casing height)
	C 2 38	LAND SURFACE
CIRCLE APPROPRIATE LETTER A WELL WAS ABANDONED AND SEALED	23 24 28 30 32 36 S C 3	below $\frac{7.5}{50.51}$ (nearest)
WHEN THIS WELL WAS COMPLETED ELECTRIC LOG OBTAINED	R 38 39 41 45 47 51	LOCATION OF WELL ON LOT
P TEST WELL CONVERTED TO PRODUCTION	E SLOT SIZE 1 2 3	SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND /OR
I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE AS	OVE OF SCREEN INCh)	LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES
HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF	56 60 Trem to	(MEASUREMENTS TO WELL)
INOWLEDGE.	GRAVEL PACK 8	ACCESS RU
DRILLERS LIC. NO. 1 M _ D	IF WELL DRILLED WAS FLOWING WELL	7
ORPLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)	NSERT FIN BOX 65	
	MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q	3.76 Hi''
LIC. NO.1 U	70 72	375 → 370 ← MTH PZ-1
SITE SUPERVISOR (sign. of driller or journeyman	74 75 76	I PE
responsible for sitework if different from permittee)	CASING INDICATOR OTHER DATA	

		STATE PERMIT NUMBER
SEQUENCE NO.	STATE OF MARYLAND	STATE PERMIT HOMBET
(MDE USE ONLY)	PERMIT TO DRILL WELL	CET 94 T 4939
2 3 6	please print or type	70 fill in this form completely 79
		LOCATION OF WELL
Date Received (APA)	$\frac{B+3}{5}$	C. 1
OWNER INFORMATI	ON 8 COUNTY	21 PZ-7
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		1
15 Last Name Owner First	Name 34 23 SUBDIVISIO	N 42
15 Last Haine		I LOT L
Street or RFD	SECTION 44	46 48 50
36 Street of HPD	T.E. LANCIX	1//42.
70 01-10 70	Zip 76 52 NEAREST T	74
57 Town 70 State 72 DRILLER INFORMATION		WN (enter 0 if in town)
1	MILES FROM TO	73 76 77 78
M V /	cense No. ⁴ 81 B 4	
Driller's Name	1 2 DIRECTION OF WELL FI	POW THE THE NUMBER
A STATE OF THE STA	TOWN (CIRCLE BOX)	11 NEAR WHAT ROAD 30
Firm Name	12 × 24/1 - M -	ON WHICH SIDE OF ROAD IN
Address	TW :	(CIRCLE APPROPRIATE BOX)
Address.	111011	WEST S EAST
Signature	ale W TOWN	E 34 77, 37 SOUTH
	1/s	DISTANCE FROM ROAD
APPROX. PUMPING RATE	RE D	ENTER FT OR MI 38 39
(GAL. PER MIN.)		TAX MAP: BLK: PARCEL
AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 14	20 8	
USE FOR WATER (CIRCLE APPROP	RIATE BOX)	NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION	Cecil	
TARAMAIC A NESTOCK WATERING & AGRICULT	URAL COUNTY NAME	COUNTY NO.
F IRRIGATION	STATE SIGNATURE	INSERT S
22 I INDUSTRIAL, COMMERICIAL, DEWATERING	DATE ISSUED	
P PUBLIC WATER SUPPLY WELL	10-17-0	10-16-02
	43 MM 00 Y	TACT
TEST, OBSERVATION, MONITORING	NORTH / 2	3 000 GRID / 77 000
G GEO-THERMAL	50	55 57
APPROXIMATE DEPTH OF WELL 24	SHOW MAJOR I BOX & LOCATE WITH AN X SOURCES OF D	
APPROXIMATE DIAMETER OF WELL	NEAREST 1.	
	2.	
METHOD OF DRILLING (circl		
BORED (or Augered) JETTED	Jetted & DRIVEN	A MINISTER
AIH-HUTary AIIH Endount	ARY (Hydraulic Rotary) WRITE THE BO	
37 CABLE REVerse-ROTary	DRIVE-POINT FROM THE MA	r nene
other	= /	70
REPLACEMENT OR DEEPENEL	WELLS	000
(CIRCLE APPROPRIATE BOX	9	CARLES TO THE PARTY OF THE PART
N THIS WELL WILL NOT REPLACE AN EXISTING	DRAW A SKET	CH BELOW SHOWING LOCATION OF WELL IN
THIS WELL WILL REPLACE A WELL THAT WILL ABANDONED AND SEALED	RELATION TO	NEARBY TOWNS AND ROADS AND GIVE
ABANDONED AND SEALED	BE USED	OM WELL TO NEAREST ROAD JUNCTION
30 LS AS A STANDBY-CONTACT LOCAL APPROVING	AUTHORITY	ALLTE KN
FOR POLICY ON STANDBY WELLS	III KUU TUU TUU TUU TUU TUU TUU TUU TUU TUU	
D THIS WELL WILL DEEPEN AN EXISTING WELL	EPENED	
PERMIT NUMBER OF WELL TO BE REPLACED OR DE		375
Not to be filled in by driller (MDE OR COU	NIY USE ONLY)	VZ
G /	AP	12-370 -3 3
APPROP, PERMIT NUMBER	63	
PERMIT No. CE	94- 4939 3 74 75 76 77 78 79	12.7
70 /1 /2 /	2 14 12 14 11 14 14 14 14 14 14 14 14 14 14 14	

				THIS REPORT MUST BE SUBMITTED WITHIN
1 02040	SEQUENCE (MDE USE O		STATE OF MARYLAND	THIS REPORT MUST BE SOBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
03949	. `		WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY	COUNTY Test PZ-8 Stancills
THIS NUMBER IS TO BE PUR COLS. 3-6 ON ALL CARDS			PLEASE TYPE	PERMIT NO
/CO USE ONLY	DATE WELL	COMPLE	111\ 00	FROM "PERMIT TO DRILL WELL" CE 94 4940
DATE Received	···· 10 - °	35- <u>01</u>	TO NEAREST FOOT)	28 29 30 31 32 33 34 35 36 37
13	15	20		
WNER	Mounts	2 M 99	MEDIN HILL Rd Free name TOWN PC	RRYVILLE MD 21903
STREET OR RFD		THOV	SECTION	LÓT
METT I	.0G		GROUTING RECORD YSS NO N	<u>C[3]</u>
Not required for	driven wells		(Circle Appropriate Box)	PUMPING TEST
STATE THE KIND OF FORMATI COLOR, DEPTH, THICKNESS	ONS PENETRATED, AND IF WATER BEA	THEIR RING	TYPE OF GROWING MATERIAL (Circle one) CEMENT CIM BENTONITE CLAY B C	HOURS PUMPED (nearest hour)
SECONOTION (LIES	FEET	if water	0 4 46	PUMPING RATE (gal. per min.)
additional sheets if needed)	FROM TO	bearing	NO. OF BAGS NO. OF POUNDS	METHOD USED TO
t.brown to			DEPTH OF GROUT SEAL (to nearest foot)	MEASURE PUMPING RATE
THRE DISWY	0 40	$ \sqrt{ }$	from 48 TOP 52 ft. to 54 BOTTOM 56	WATER LEVEL (distance from land surface)
JUTY SOM			(enter 0 if from surface)	BEFORE PUMPING 17 20 ft.
			casing CASING RECORD types	. 1/
			types insert appropriate STEEL CONCRETE	WHEN PUMPING 22 25 It.
5			code PL OT	TYPE OF PUMP USED (for test)
•			PLASTIC OTTIES	A air P piston T turbine
_		<u> </u>	CASING top (main) casing of main casing	C centrifugal R rotary O (describe
			TYPE (nearest inch)! (nearest foot)	Continuosa (A) (SE) below)
į		1	60 61 63 64 66 70	J jet S submersible
±		1	E OTHER CASING (if used)	<u> </u>
4 ·		1	A diameter depth (reet) C inch from to	PUMP INSTALLED (13)
			<u> </u>	DRILLER INSTALLED PUMP YES NO (CIRCLE) (YES or NO)
				IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.
			SCREEN RECORD	TYPE OF PUMP INSTALLED
		1	or open hole ST BR HO	PLACE (A,C,J,P,R,S,T,O) IN BOX 29.
		1	insert STEEL BRASS OPEN Appropriate BRONZE HOLE	CAPACITY: GALLONS PER MINUTE
	1 1	-	(code) DII OIT	(to nearest gallon) 31 35
			below PLASTIC OTHER	PUMP HORSE POWER 37 41
			C 2 DEPTH (nearest ft.)	PUMP COLUMN LENGTH
NUMBER OF UNSUCCES	SFUL WELLS:	3U01	$\frac{1.201}{20}$ 30 40	CACING HEIGHT /circle appropriate box
WELL HYDROFRACTURE	199	Ñ	E 8 9 11 15 17 21	and enter casing heigm)
			C ₂ 36	LAND SURFACE
THAT A MATERIAL MAC ARAND	OPRIATE LETTER	ס	s a a a	below $\frac{2}{50.51}$ foot)
WHEN THIS WELL W	AS COMPLETED		C 3 R 38 39 41 45 47 51	49 LOCATION OF WELL ON LOT
P TEST WELL CONVER	TED TO PRODUCT	ION	E SLOT SIZE 1 . O 1 0 2 3	4 SHOW PERMANENT STRUCTURE SUCH AS
I HEREBY CERTIFY THAT THIS	WELL HAS BEEN CON	ISTRUCTED I	DIAMETER (NEAREST	BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS
IN CONFORMANCE MILITALE	THE PROPERTY OF	u DOESENTE	D 56 60	THAN TWO DISTANCES (MEASUREMENTS TO WELL)
CAPTIONED PERMIT, AND TH HEREIN IS ACCURATE AND KNOWLEDGE.	COMPLETE TO THE	11/4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	_
DRILLES LIC. NO.	لره ڪير	البر	GRAVEL PACK (XXX)	- I
- //hul/	W/A	//	WAS FLOWING WELL INSERT F IN BOX 68 68	→ / H ¹ /1.
DRILLERS SIGNATUR (MUST MATCH SIGNATUR	RE ON APPLICATION		MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)	De soo > William
LIC. NO. I		'	T (E.R.O.S.) W Q	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
			70 72	
SITE SUPERVISOR (sig	gn. of driller or jour	neyman	TELESCOPE LOG OTHER DATA	
resnonsible for sitework	if different from pe	rmittee)	CAGING INDICATOR OTHER DATA	

promise the contract of the co			CTATE DEDLUT AUGUSED
SEOUENCE NO.	STATE OF M	ARYLAND	STATE PERMIT NUMBER
(MDE USE ONLY)	PERMIT TO D		CE - 34 - 4940
2 3 6	please prin		fill in this form completely 79
Date Received (APA)		B 3	LOCATION OF WELL
OWNER INFORMATION	N	8 COUNTY	21 PT-8
8 MM DD YY 13			
15 Last Name Owner First N	lame 34	23 SUBDIVISION	42
15 Last Name Owner First P			LOT
Street or RFD	55	SECTION 44 46	LOT 48 50
36 Street of HFD		1 FINITULE	100
57 Town 70 State 72	Zip 76	52 NEAREST TOWN	. 71
DRILLER INFORMATION		MILES FROM TOWN (ente	er () if in town) M 1
	D 47	WILES LHOW TOWN (SUICE	73 76 77 78
		B 4	
Driller's Name		1 2 DIRECTION OF WELL FROM	1 1/A pries one de la laconstante
Firm Name		TOWN (CIRCLE BOX)	11 NEAR WHAT ROAD 30
Firm Name.	21341	_ N	ON WHICH SIDE OF ROAD NORTH
Address	,	NW B NE	(CIRCLE APPROPRIATE BOX)
The A. Seller	1 hours	8-9	WEST STEELS
Signature Da		W TOWN E	34 7 37 SOUTH
B 2 WELL INFORMATION		1 / E	DISTANCE FROM ROAD
1 2 APPROX. PUMPING RATE	12	S. S.	ENTER FT OR MI 38 39
(Cart. 1 Cart many		S 5	TAX MAP: BLK: PARCEL
AVERAGE DAILY QUANTITY NEEDED (GAL PER DAY) 14	20	8	
USE FOR WATER (CIRCLE APPROPR	RIATE BOX)	NOT TO	O BE FILLED IN BY DRILLER H DEPARTMENT APPROVAL
DOWNERS DOTARY & CURRY & DECIDENTIAL			II DEL'AITMENT AI FILOTAE
D DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION		Cacil	COUNTY NO
FARMING (LIVESTOCK WATERING & AGRICULTU	IRAL	COUNTY NAME	COUNTY NO.
IRRIGATION		STATE SIGNATURE	INSERT S 41
22 INDUSTRIAL, COMMERICIAL, DEWATERING		DATE ISSUED	-1 .
P PUBLIC WATER SUPPLY WELL		10-17-01	CO SIGNATURE EXP. DATE
TEST, OBSERVATION, MONITORING		NORTH / 2	EAST / 7
`.=		GRID 50	000 GRID // 000 63
G GEO-THERMAL			
		SHOW MAJOR FEATURE BOX & LOCATE WELL	ES OF
APPROXIMATE DEPTH OF WELL	J FEET	WITH AN X	
24 21	NEAREST	SOURCES OF DRILLING	WATER
APPROXIMATE DIAMETER OF WELL	INCH	1.17101/2017	
		2.	
METHOD OF DRILLING (circle		3.	
BORED (or Augered) JETTED	Jetted & DRIVEN		Y Y
Minimotaly	RY (Hydraulic Rotary)	WRITE THE BOX NUMBI	
37 CABLE REVerse-ROTary	DRive-POINT	FROM THE MAP HERE	
other		= /370	
REPLACEMENT OR DEEPENED	WELLS	= <u>/ \ / . / </u>	000
(CIRCLE APPROPRIATE BOX)		N /5	
N THIS WELL WILL NOT REPLACE AN EXISTING W		DRAW A SKETCH BELO	W SHOWING LOCATION OF WELL IN
THIS WELL WILL REPLACE A WELL THAT WILL I	36	RELATION TO NEARBY	TOWNS AND ROADS AND GIVE
ABANDONED AND SEALED	BE USED	DISTANCE FROM WELL	TO NEAREST ROAD JUNCTION
19 S AS A STANDRY-CONTACT LOCAL APPROVING A	UTHORITY		
FOR POLICY ON STANDBY WELLS			1
D THIS WELL WILL DEEPEN AN EXISTING WELL	EDENED -		
PERMIT NUMBER OF WELL TO BE REPLACED OR DEI	52	N	FZ.7
	TY LICE ONLY	A	06 700 -
Not to be filled in by driller (MDE OR COUN	IY USE ONLY)		*
G A	Р		13'
APPROP. PERMIT NUMBER 54	63		
CE-	94- 4940	- 17	
PERMIT No. 70 71 72 73	74 75 76 77 78 79	1.	

7	7			NT2	ATE PERMIT NUMBER
	USE ONLY)	STATE OF MA			
1 2 3 6 (MOC		PERMIT TO DE		CE-	
		please print	or type	70 fill in	this form completely 79
Date Received (APA)		E	3	LOCATION OF	WELL
1, 1	OWNER INFORMATION		a course		21 PZ-9
8 MM 00 YY 13			8 COUNTY		21 24-9
L. Tarrilla La	Owner First Name	34	23 SUBDIVISION		42
15 Last Name	Owner First Name	57	25 300014131014		
36	Street or RFD	55	SECTION 44 46	LOT	
6	MIL SING		I WARRYVILL		
Town	70 State 72 Zip	76	52 NEAREST TOWN		71
DRILLER INFORMATION			MILES FROM TOWN (ent	er () if in town) 1	~ M 11
I show a state	M -D	47.	MILES FROM TOWN (BIR	73	
Driller's Name	76 License h			-	
DARKER ALVERT		1	RECTION OF WELL FROM		ni Ni kai
Firm Name	W. S 2811		OWN (CIRCLE BOX)	11 N	IEAR WHAT ROAD 30
IN EXICA	Charle Kill AD	51041	N N	ON WHICH	SIDE OF ROAD NORTH
Address				(CIRCLE AP	PROPRIATE BOX)
Valle 1 1 1 1 1 1	Date	1.6/	W TOWN E		WEST (S) EAST 34 ' ∠ () 37 SOUTH
B 2 WELL INFORMAT		1		Di	STANCE FROM ROAD
1 2 APPROX. PUR	APING RATE				ENTER FT OR MI 38 39
(GAL. PER MI	1 11 11	12		RE	BLK: A PARCEL / 3/
AVERAGE DAILY QUANTITY NEI (GAL. PER DAY)	EDED 14	20	8	TAX MAP:	BUR: PARCEL
	TER (CIRCLE APPROPRIATE B	OX)	NOT T	O BE FILLED	N BY DRILLER
DOLUTING BOTARI E S			HEALT	TH DEPARTME	NT APPROVAL
D DOMESTIC POTABLE ST	UPPLY & RESIDENTAL		Cecil		
	WATERING & AGRICULTURAL		COUNTY NAME		COUNTY NO.
IHHIGATION			STATE SIGNATURE		INSERT S 41
22 INDUSTRIAL, COMMERI	ICIAL, DEWATERING		DATE ISSUED		
P PUBLIC WATER SUPPLY	YWELL		1()-1/-(); 43 MM DD YY 48	CO SIGNATU	10-16-02 URF EXP. DATE
T TEST, OBSERVATION, A	MONITORING		NORTH :	L' EAST	-5
G GEO-THERMAL			GRID 50	000 GRID _	57 000
	113		SHOW MAJOR FEATURE BOX & LOCATE WELL	ES OF	
APPROXIMATE DEPTH OF WEL	24 28 FEET	- X	WITH AN X		
	-	NEAREST	SOURCES OF DRILLING 1.	WATER	
APPROXIMATE DIAMETER OF V	VEIL	— INCH	2.		
METHOD	OF DRILLING (circle one)		3.		
BORED (or Augered)	JETTED Jette	ed & DRIVEN			. 7
20	ERcussion ROTARY (Hyd	draulic Rotary)	WRITE THE BOX NUMBI	ER	X
37 CABLE REVerse	ROTary	DRive-POINT	FROM THE MAP HERE		
other			1777		
	ENT OR DEEPENED WELL	LS	E 1.10		000
(CIRC	LE APPROPRIATE BOX)		7 -67	- C	000
•	EPLACE AN EXISTING WELL		N in the		TOU OF WELL IN
	CE A WELL THAT WILL BE		DRAW A SKETCH BELO RELATION TO NEARBY	W SHOWING LOCATOWNS AND ROAL	OS AND GIVE
ABANDONED AND SEALE	ED DE A WELL THAT WILL BE USE	-D	DISTANCE FROM WELL		
39 AS A STANDBY-CONTAC	T LOCAL APPROVING AUTHOR	ITTY			
FOR POLICY ON STANDE	BY WELLS				17
THIS WELL WILL DEEPER		,		Erec .	
PERMIT NUMBER OF WELL TO (IF AVAILABLE) 41	DE NEPLACED ON DEEPENEL	52	N	Ý.	2.7
	W MOE OD COUNTY US	E ONLY	A		BY9, JK
Not to be filled in by dr	HILE (MDE OR COUNTY US	E ONET)			X .
APPROP. PERMIT NUMBER	GAP			10	نان الآ
, , , , , , , , , , , , , , , , , , , ,	54	63	~		Y
PE	RMIT No	4941		1 200	1

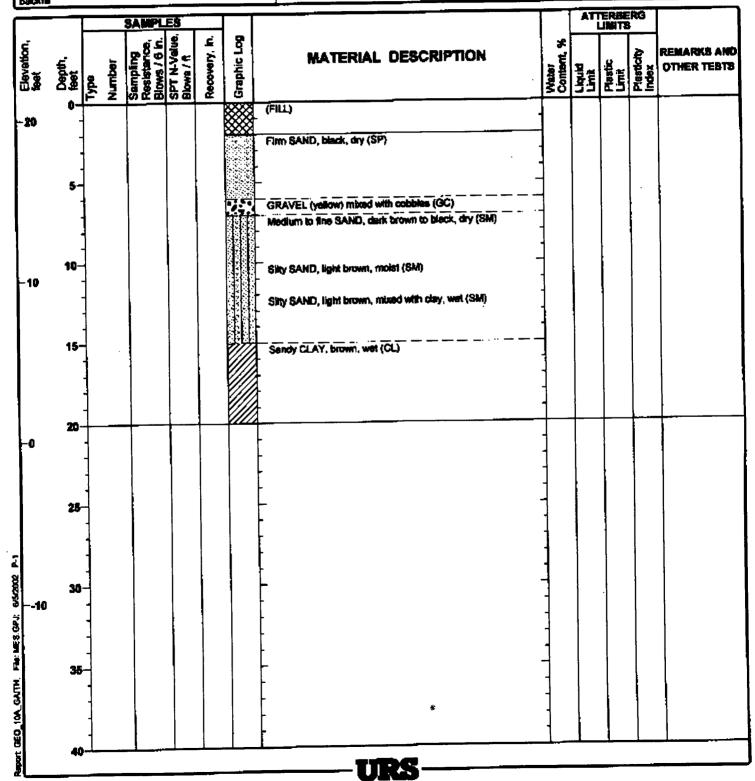
1 03950 SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
1 2 3 (THIS NUMBER IS TO BE PUNCHED	WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY	COUNTY NUMBER Test PZ-9 Stancills
IN COLS. 3-6 ON ALL CARDS) ST/CO USE ONLY DATE WELL COMPLE	PLEASE TYPE TED Depth of Well	PERMIT NO. FROM "PERMIT TO DRILL WELL"
DATE Received w	22 90 26	CE 94 4941
6 13 15 S	(TO NEAREST FOOT)	28 29 30 31 32 33 34 35 36 37
STREET OR RFD 499 MOUNT	TOWN EA	CYVILLE MD 21903
SUBDIVISION	SECTION	LOT
WELL LOG	GROUTING RECORD WELL HAS BEEN GROUTED YES NO N	<u>C 3 </u>
Not required for driven wells STATE THE KIND OF FORMATIONS PENETRATED, THEIR	(Circle Appropriate Box) TYPE OF GROUTING MATERIAL (Circle one)	PUMPING TEST
STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING DESCRIPTION (Use FEET if winter	CEMENT CM BENTONITE CLAY BC	HOURS PUMPED (nearest hour)
additional sheets if needed) FROM TO bearing	NO. OF BAGS 46 Q NO. OF POUNDS 370	PUMPING RATE (gal. per min.)
It brown to	GALLONS OF WATER 136	METHOD USED TO MEASURE PUMPING RATE
TOLK PLOME	DEPTH OF GROUT SEAL (to nearest foot) from ft. to ft.	WATER LEVEL (distance from land surface)
sitty sand 0 40 V	48 TOP 52 54 BOTTOM 58 (enter 0 if from surface)	BEFORE PUMPING
H- branch	casing CASING RECORD types ST CO	BEFORE PUMPING 17 20
It. brown to	insert appropriate STEEL CONCRETE	WHEN PUMPING 22 25 ft.
ck. brown sitty	code below PLASTIC OTHER	TYPE OF PUMP USED (for test)
ck brown sitty sand withour of red clay 40 95	MAIN Nominal diameter Total depth	A air P piston T turbine
Idea can 40 to 1	CASING top (main) casing of main casing TYPE (nearest inch)! (nearest foot)	C centrifugal R rotary O (describe below)
	$\frac{\text{PL}}{\frac{60}{61}} \frac{\text{3}}{63} \frac{\text{4}}{68} \frac{\text{5}}{70}$	J jet S submersible
	E OTHER CASING (if used)	27 27
	A diameter depth (feet) C inch from to	PUMP INSTALLED
7	6	DRILLER INSTALLED PUMP (CIRCLE) (YES or NO)
	Ř	IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.
7	screen type SCREEN RECORD	TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) 29
	or open hole ST BR HO	IN BOX 29. CAPACITY:
7	(appropriate code pelow BRONZE HOLE PL OT	GALLONS PER MINUTE (to nearest gallon) 31 35
	PL OTHER	PUMP HORSE POWER
1116	C 2 DEPTH (nearest ft.)	PUMP COLUMN LENGTH
NUMBER OF UNSUCCESSFUL WELLS: A)	1. Pol 80 90	(nearest ft.)
WELL HYDROFRACTURED Y	A 8 9 11 15 17 21	CASING HEIGHT (circle appropriate box and enter casing height)
CIRCLE APPROPRIATE LETTER	C ₂ H 23 24 28 30 32 36	LAND SURFACE
A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED	S C ₃ R 39 39 41 45 47 51	below below (nearest)
E ELECTRIC LOG OBTAINED TEST WELL CONVERTED TO PRODUCTION	R 38 39 41 45 47 51 E SLOT SIZE 1 010 2 3	A LOCATION OF WELL ON LOT
I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN	DIAMETER (NEAREST	SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND /OR
ACCORDANCE WITH COMAR 28.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CATIONED PERMIT, AND THAT THE INFORMATION PRESENTED.	OF SCREEN (NCH)	LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES
HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.	from to	(MEASUREMENTS TO WELL)
DRILLERS LIS. NO. MO D 47	GRAVEL PACK IF WELL DRILLED	07.9
DRILLERS SIGNATURE	WAS FLOWING WELL INSERT F IN BOX 68 68	\$\$ ~ MTN.
(MUST MATCH SIGNATURE ON APPLICATION)	MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)	100
LIC. NO.1 D 1	T (E.R.O.S.) W Q	11 11 21
SITE SUPERVISOR (sign. of drifter or journeyman	70 72 74 75 78	Hall Rd 1 Kd
responsible for sitework if different from permittee)	TELESCOPE LOG CASING INDICATOR OTHER DATA	

Project Location: Cecil County, Maryland

Project Number: 89-0000229.00

Log of Boring P-1

Date(s) 10/22/2000 - 10/22/2000	Lagged E. Koubek By	Checked J. Keehetse
Orilling HSA Method	Drti Bit Size/Type	Total Depth of Borehole 20.0 feet
DAN RIG	Drilling Earth Matters	Surface Elevation 21.0 ft. mail
Type Groundwater Leval(a)	Sampling Method(s) NA	Hammer MA Deta
Borehole Wall installed.	Comments	

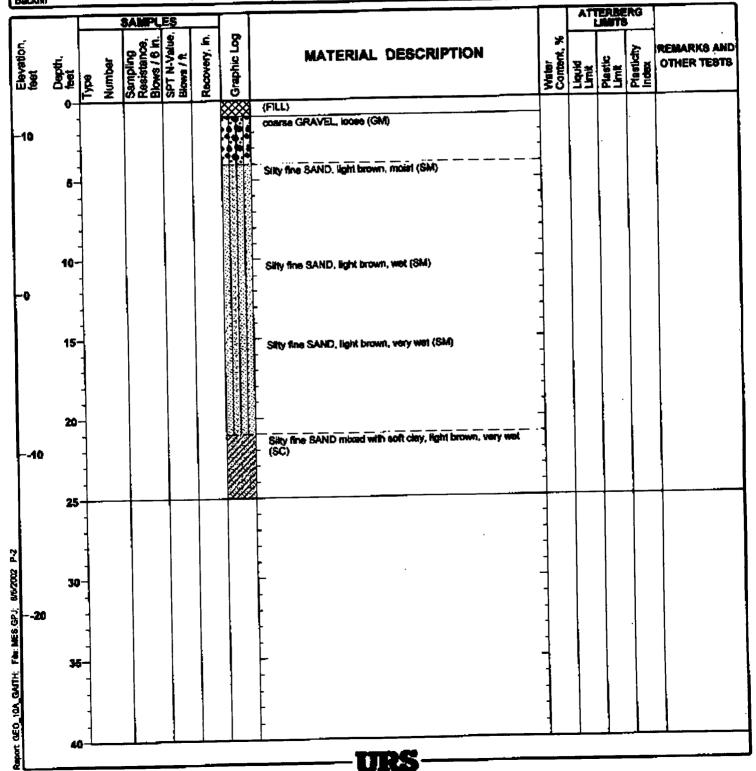


Project Location: Cecil County, Maryland

Project Number: 89-00000229.00

Log of Boring P-2

Dete(5) 19/24/2000 - 19/24/2000	Logged	E. Koubek	Checked By	J. Kachatus
Orlling HSA Method	Drill Biti Size/Type		Tatal Depth of Baruhole	25.0 tee t
Drill Rig Type	Drilling Contractor	Earth Matters	Surface Elevation	12.0 ft. mel
Groundwater	Sampling Method(s)	NA	Hammer Data	NA
Borshole Well Installed.	Comments			

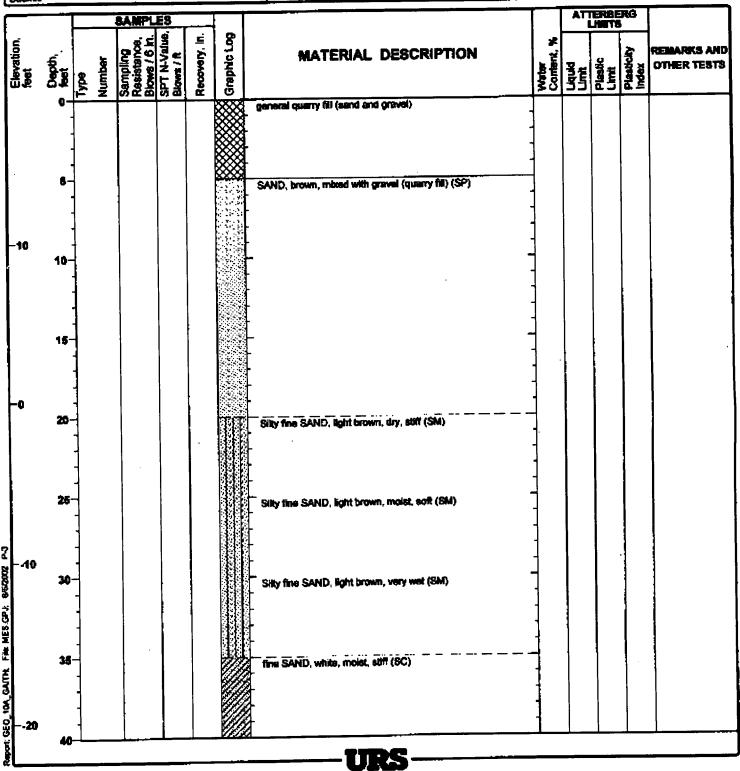


Project Location: Cecil County, Maryland

Project Number: 89-00000229.00

Log of Boring P-3

Data(s) Orflied 10/23/2000 - 10/23/2000	Logged E. Koubek By	Checked J. Keshebus
Ortiling HSA Method	Drift Bit Stra/Type	Total Depth of Borehole 45.0 feet
Orlit Rig Type	Drilling Earth Matters	Surface 19.0 ft. med
Groundwater Level(s)	Sempling NA Method(s)	Harriner NA.
Borehole Well Installed.	Comments	



Project Location: Cecil County, Maryland

Project Number: 89-00000229.00

Log of Boring P-3

Sheet 2 of 2

	SAMPLES			SAMPLES						AT	TERM LIMIT	RG	
1984	Depth.	Type	Number	Sampling Resistance, Blows / 6 in.	SPT N-Value, Blows / R	Recovery, in.	Graphic Log	MATERIAL DESCRIPTION	Water	Liquid Liquid Liquid	Pleatic Limit	Plasticity Index	REMARKS AND OTHER TESTS
	40-	<u> </u>	_	<u> </u>				SAPROLITE, dark brown, dry, very dense	_				
	45-			-					-			-	
	-							· -	1		ŀ		<u>.</u>
30	50 -				<u>.</u>			- - -		ļ		ļ	
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	58-	1		ı					1				
40	60-	1			:			[-	1				
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	65-	- - -							1				
-50													
	70	- - -											
	75	1							1				
		1							1				
-60	80	, -							4				
		1							1	1			
	85	i											

Project Location: Cecil County, Maryland

Project Number: 89-0000229.00

Log of Boring P-4

Data(s) 10/23/2000 - 10/23/2000	Logged E Koubek	Checked J. Kashatus
Drilling Method HSA	Driff Bit Sizzi/Type	Total Depth of Borehole 20.0 feet
Drift Fig Type	Drilling Contractor Earth Matters	Surface 11.0 ft. small
Groundwater Level(e)	Sampling NA Method(s)	Hammer NA Data
Borshole Rackfill Well Installed.	Comments	

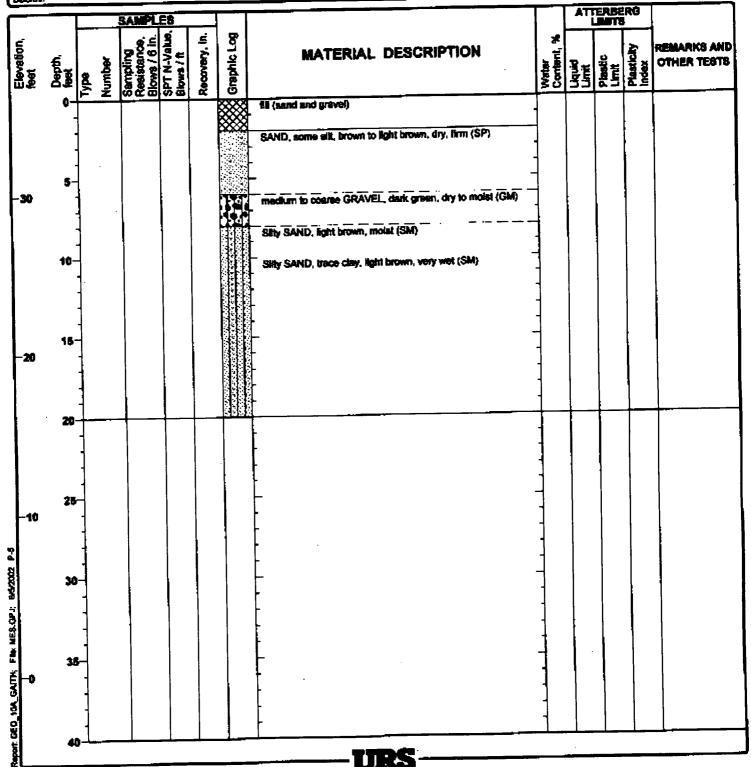
	SAMPLES		SAMPLES							AT	ERBE	RG		
Elevation, feet	Depth.	Type	Sempling Resistance,	Blows / 8 in. SPT N-Value,	Blows / ft	Recovery, in.	Graphic Log	MATERIAL DESCRIPTION	Water	Content, %	Levid	Plastic Limit	Plasticity Index	REMARKS AND OTHER TESTS
10	0-		- - - 		=			fil) (sand and gravel)	1					
	-				Ì		***	SAND, some fine to medium, dark brown, dry, soft (SP)	1				1	
								<u>-</u>	1					
	5-							-	}					
		1					Ti Î	Sity SAND, light brown, well (SM)	+		ļ			
	10-]			Ì			Sity SAND, light brown, very wet (SM)	7					
0		1						Still Strain after mount and mer laws	1					
]						-	1					
	15-	1						<u>.</u>	-					
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		1							-					
	40	,	L_	L			1	urs				•	•	

Project Location: Cecil County, Maryland

Project Number: 89-00000229.00

Log of Boring P-5

Deteres company	Logged E Koubek	Checked J. Kenhatus
Date(s) Drilled 10/22/2000 - 10/22/2000	Drift Bit.	Total Depth of Borehole 20.0 feet
Orilling Method HSA Orill Rig	Size/Type Drilling Contractor Earth Matters	Surface 38.0 ft. mail
Type Groundwater Level(s)	Sampling NA Method(s)	Hammer NA Deta NA
Borehols Backfil Well Installed.	Comments	



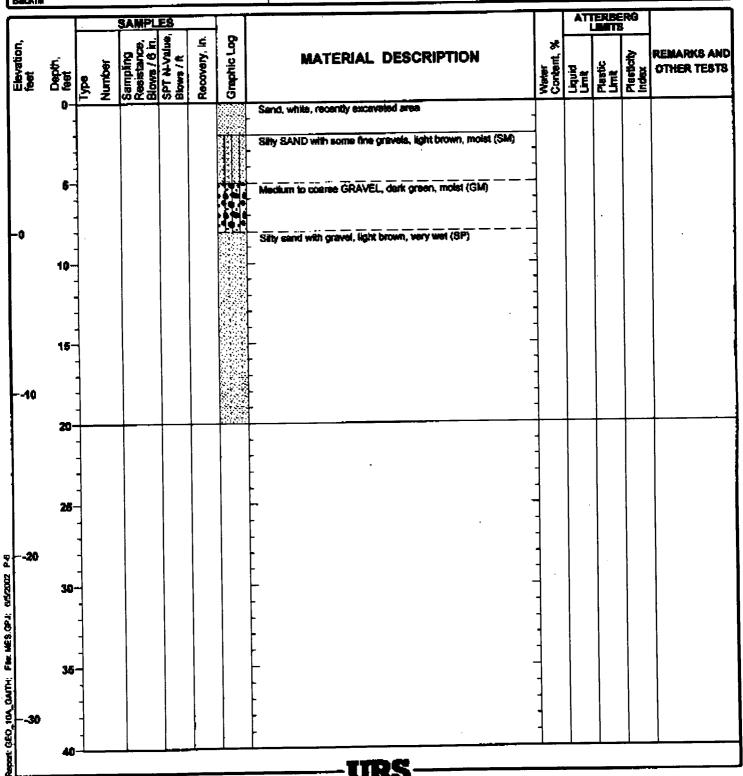
Project Location: Cecil County, Maryland

Project Number:

89-00000229.00

Log of Boring P-6

		I aread		Checked	A Manhahan
Date(s) Orilled	10/23/2000 - 10/23/2000	Lagged By	E. Koubek	Ву	J. Kachetus
Drilling Mathod	HŠA	Drill Bit Stee/Type		Total Depth of Borehole	20.0 fact
Drift Rig Type		Driting Contractor	Earth Mailers	Surface Elevation	8.0 ft. mel
Groundwa Level(s)	eter .	Sampling Method(s)	NA	Hammer Oats	NA
Borehole	Well installed.	Comments			

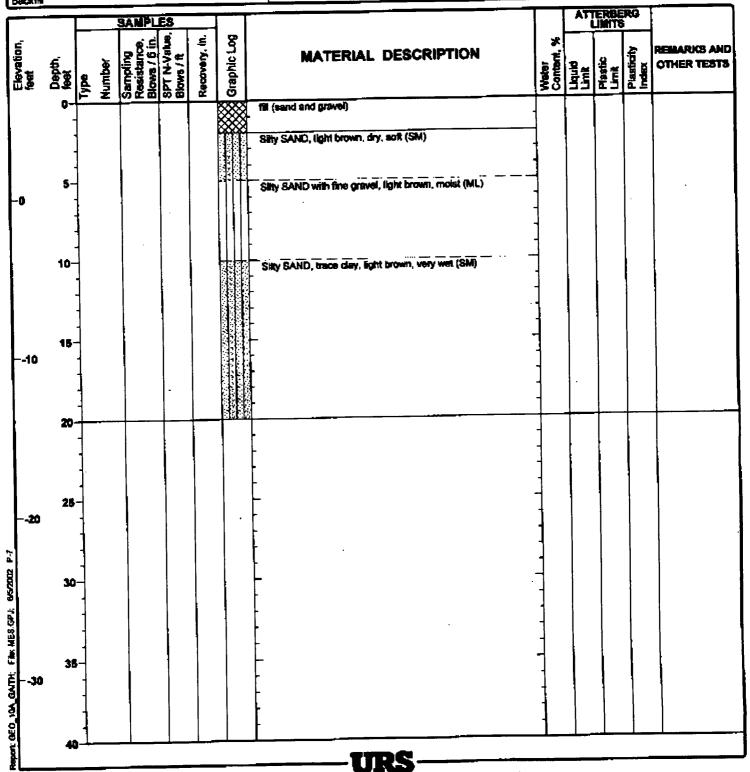


Project Location: Cecil County, Maryland

Project Number: 89-00000229.00

Log of Boring P-7

			(1) - ab ad	
Dala(8) 10/24/2000 - 10/24/2000	Logged By	E. Koubek	Checked By	J. Keehatus
Drilling Method HSA	Drill Bit Sizu/Type		Total Depth of Borehole	20.0 feet
Orti) Rig	Drilling Contractor	Earth Matters	Surface Elevation	6.0 ft. mei
Type Groundwater Level(s)	Sampling Method(s)	NA	Hammer Data	NA
Borehole Well Installed.	Comments			



Project: MES Stancill Quarry

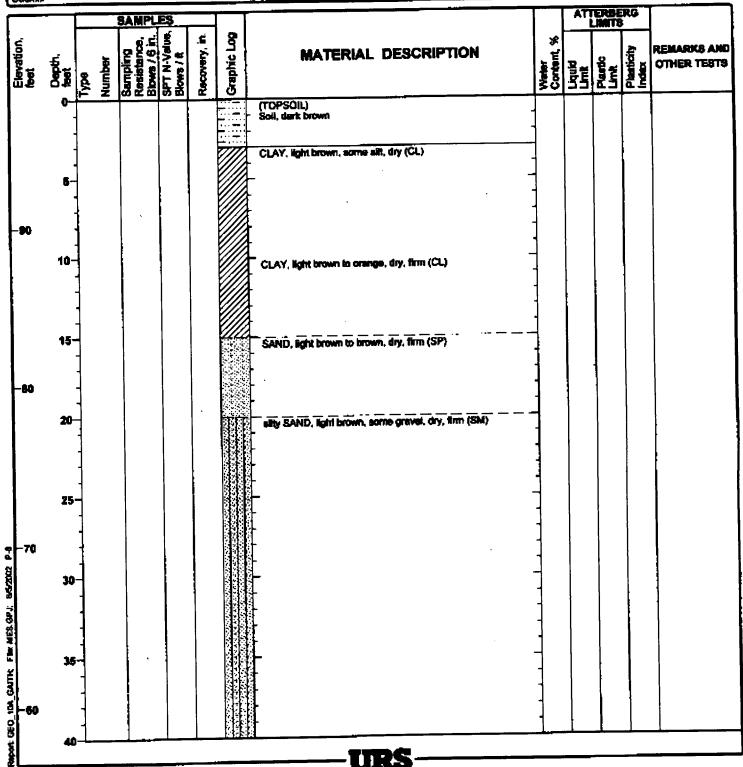
Project Location: Cecil County, Maryland

Project Number: 89-00000229.00

Log of Boring P-8

Sheet 1 of 3

Date(5) 10/22/2000 - 10/23/2000	Logged E. Koubek	Checked J. Kashetus
Drilling Method HSA	Drill Bitl Size/Type	Total Depth of Borehole 95.0 feet
Orli Rig Type	Drilling Contractor Earth Matters	Surface \$8.0 ft. mel
Groundwater Level(s)	Sampling NA. Method(s)	Hammer MA
Borehole Well Installed.	Comments	



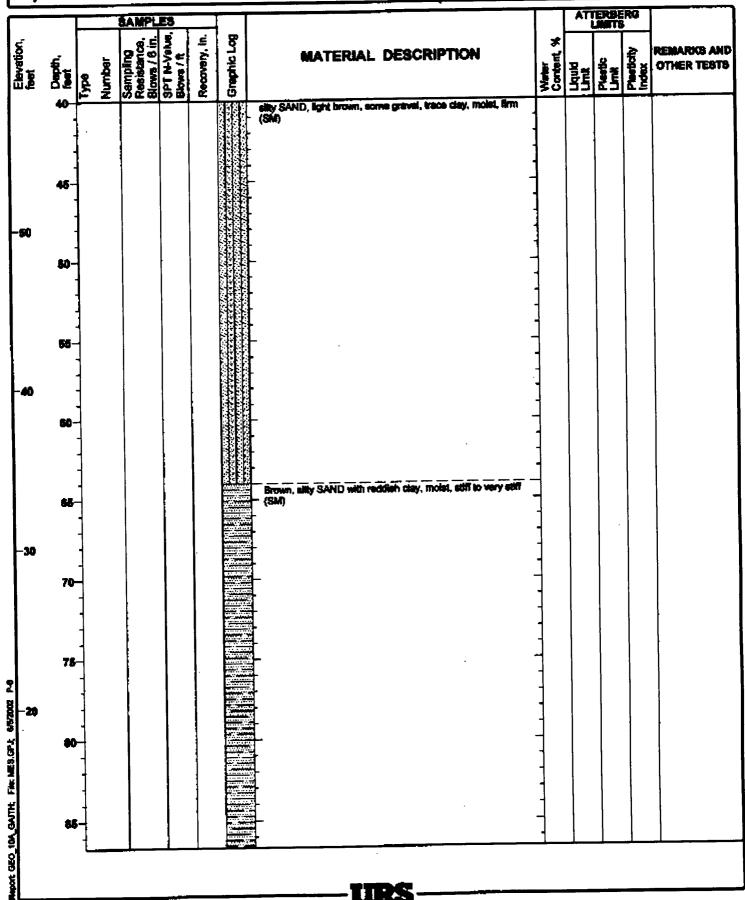
Project: MES Stancill Quarry

Project Location: Cecil County, Maryland

Project Number: 88-0000229.00

Log of Boring P-8

Sheet 2 of 3



Project: MES Stancili Quarry

Project Location: Cecil County, Maryland

Project Number: 89-00000229.00

Log of Boring P-8

Sheet 3 of 3

SAMPLES				AMPL	E 8						ATT	ERBE	RG	
faet	Depth, fact	Type	Number	Sampling Resistance, Blows / 8 in.	SPT N-Value, Blows / ft	Recovery, in.	Graphic Log	MATERIAL DESCRIPTION	Water	Content, %		Plastic Limit	Plasticity Index	REMARKS AND OTHER TESTE
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	90-							-	}	Ì				NO.
	-						******		-	-				NO SIGNIFICANT WATER ENCOUNTERE
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	130	1						<u></u>	7					
	4 676	1							4					
		1									<u>. </u>			

Project: MES Stancill Quarry

Project Location: Cecil County, Maryland

Project Number: 89-00000229.00

Log of Boring P-8

Sheet 3 of 3

	SANPLES											ATT	ERBE Juit 8	RG			
	Depth. feet	Type Number	Sampling Yes Resistance, MY Blows / 6 in.	SPT N-Value, Blows / ft	Recovery, in.	Graphic Log	j	MATERIA	L DES	CRIPTK	ON		Water Content, %				REMARKS AND OTHER TESTS
10							-	·				-		!			
	90-											_					
	30						-					•					NO.
_	-																NO SIGNIFICANT WATER ENCOUNTERE
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		1						<u> </u>			· · · · · ·						

A-2 WATER LEVEL READINGS

	Instrument type: LT-Levelogger 26800												
	Instrument number : 26800-SO#34615												
	Location : Piezometer #6 Stancill Quarry												
	Sample mode : T												
	Channel 1 : LEVEL												
					Reference: 0.0								
					Range : 32.80								
					Master level : 0.		1-a	***					
					nnel 2 : TEMPE								
					eference : -20.00								
					Range : 100.00 D	EG C							
							Barometric						
!	ļ	ļ					pressure-						
[Ì	1					Elevation						
	:					Barometric	corrected						
					Barometric	Pressure in	barometric						
			Channel 1	Channel 2	Pressure in	water column	pressure offset	, ,	Ground Water				
No.	Date	Time	(ft)	(deg. C)	inch Hg	equivalent (ft)	value	Water Level (ft)	Elevation (ft)				
1	01/08/2002	20:00:00	10.06	11.42	30.01	34.06	2.90		1.70				
2	01/09/2002	8:00:00	9.93	11.17	29.86	33.89	2.73	7.20	1.74				
3	01/09/2002	20:00:00	9.72	11.25	29.68	33.69	2.53	7.19	1.73				
4	01/10/2002	8:00:00	9.84	11.4	29.81	33.83	2.67	7.17	1.71				
5	01/10/2002	20:00:00	9.86	11.09	29.81	33.83	2.67	7.19					
6	01/11/2002	8:00:00	9.76	11.37	29.84	33.87	2.71	7.05					
7	01/11/2002	20:00:00	9.92	11.08	29.84	33.87	2.71	7.21	1.75				
8	01/12/2002	8:00:00	10.07	11.35	29.83	33.86	2.70		1.91				
9	01/12/2002	20:00:00	9.82	10.98	29.83	33.86	2.70						
10	01/13/2002	8:00:00	9.6	11.09	29.72	33.73	2.57	7.03					
11	01/13/2002	20:00:00	9.96	11.22	29.72	33.73	2.57	7.39	1.93				
12	01/14/2002	8:00:00	. 10.17	11	30.14	34.21	3.05		1.66				
13	01/14/2002	20:00:00	9.98	11.19	30.14	34.21	3.05	6.93					
14	01/15/2002	8:00:00	9.92	11.21	30.05	34.11	2.95		1.51				
15													
16	01/16/2002	8:00:00	10.28	11.1	30.21	34.29	3.13						
17	01/16/2002	20:00:00	10.23	11.17	30.21	34.29							
18	01/17/2002	8:00:00	9.98	11	29.97	34.02	2.86						
19	01/17/2002	20:00:00	10.03	10.69	29.97	34.02	2.86						
20	01/18/2002	8:00:00	10.09	11.03	30.14	34.21	3.05	7.04	1.58				

						<u></u>	Barometric		
1							pressure-		
							Elevation		
						Barometric	corrected		
·]			_			Pressure in	barometric		
			_ · ·		Barometric			Commonanted	Ground Water
			Channel 1	Channel 2	Pressure in		pressure offset	•	
No.	Date	Time	(ft)	(deg. C)	inch Hg	equivalent (ft)	value	Water Level (ft)	Elevation (ft)
21	01/18/2002	20:00:00	10.22	10.83	30.14	34.21	3.05	7.17	1.71
22	01/19/2002	8:00:00	10.18	10.86	30.21	34.29	3.13	7.05	1.59
23	01/19/2002	20:00:00	9.77	11.06	29.80	33.82	2.66	7.11	1.65
24	01/20/2002	8:00:00	10.07	11.04	30.14	34.21	3.05	7.02	1.56
25	01/20/2002	20:00:00	10.15	10.89	30.14	34.21	3.05	7.10	1.64
26	01/21/2002	8:00:00	9.93	11.03	30.11	34.17	3.01	6.92	1.46
27	01/21/2002	20:00:00	9.83	10.85	30.11	34.17	3.01	6.82	1.36
28	01/22/2002	8:00:00	10.2	10.73	30.38	34.48	3.32	6.88	1.42
29	01/22/2002	20:00:00	10.33	10.58	30.38	34.48	3.32	7.01	1.55
30	01/23/2002	8:00:00	10.13	10.95	30.38	34.48	3.32	6.81	1.35
31	01/23/2002	20:00:00	9.87	10.67	30.38	34.48	3.32	6.55	1.09
32	01/24/2002	8:00:00	9.66	10.54	30.11	34.17	3.01	6.65	1.19
33	01/24/2002	20:00:00	9.55	10.75	30.11	34.17	3.01	6.54	1.08
34	01/25/2002	8:00:00	9.93	10.61	29.67	33.68	2.52	7.41	1.95
35	01/25/2002	20:00:00	10.1	10.79	29.67	33.68	2.52	7.58	2.12
36	01/26/2002	8:00:00	10.16	10.54	30.30	34.39	3.23	6.93	1.47
37	01/26/2002	20:00:00	10.11	10.77	30.30	34.39	3.23	6.88	1.42
38	01/27/2002	8:00:00	10.13	10.64	30.22	34.30		6.99	1.53
39	01/27/2002	20:00:00	10.07	10.53	30.22	34.30	3.14	6.93	1.47
40	01/28/2002	8:00:00	10	10.7	30.15	34.22	3.06	6.94	1.48
41	01/28/2002	20:00:00	9.88	10.41	30.15	34.22	3.06	6.82	1.36
42	01/29/2002	8:00:00	9.87	10.37	30.15	34.22	3.06	6.81	1.35
43	01/29/2002	20:00:00	9.86	10.68	30.15	34.22	3.06	6.80	1.34
44	01/30/2002	8:00:00	9.82	10.42	30.15	34.22	3.06	-6.76	1.30
45	01/30/2002	20:00:00	10.03	10.73	30.15	34.22	3.06	6.97	1.51
46	01/31/2002	8:00:00	10.14	10.71	30.03	34.08	2.92	7.22	1.76
47	01/31/2002	20:00:00	10.01	· 10.65	30.03	34.08	2.92	7.09	1.63
48	02/01/2002	8:00:00	9.69	10.4	29.89	33.93	2.77	6.92	1.46
49	02/01/2002	20:00:00	9.75	10.65	29.89	33.93	· 2.77	6.98	1.52
50	02/02/2002	8:00:00	10.14	10.63	30.33	34.42	3.26	6.88	1.42
51	02/02/2002	20:00:00	10.19	10.52	30.39	34.49	3.33	6.86	1.40

	Dete	Time	Channel 1	Channel 2	Barometric Pressure in inch Hg	Barometric Pressure in water column equivalent (ft)	Barometric pressure- Elevation corrected barometric pressure offset value	Compensated Water Level (ft)	Ground Water Elevation (ft)
No.	Date		(ft)	(deg. C)	30.10	34.16	3.00	7.02	1.56
52	02/03/2002	8:00:00 20:00:00	10.02 9.68	10.47 10.55	30.10	34.16	3.00	6.68	1.22
53 54	02/03/2002	8:00:00	9.66	10.55	29.79	33.81	2.65	6.84	1.38
55	02/04/2002	20:00:00	9.63	10.03	29.79	33.81	2.65	6.98	1.52
56	02/04/2002	8:00:00	10.01	10.43	30.36	34.46	3.30	6.71	1.25
57	02/05/2002	20:00:00	9.84	10.43	30.18	34.25	3.09	6.75	1.29
58	02/05/2002	8:00:00	9.94	10.61	30.33	34.42	3.26	6.68	1.22
59	02/06/2002	20:00:00	9.83	10.38	30.18	34.25	3.09	6.74	1.28
60	02/07/2002	8:00:00	9.59	10.57	30.01	34.06	2.90	6.69	1.23
61	02/07/2002	20:00:00	9.41	10.4	29.86	33.89	2.73	6.68	1.22
62	02/08/2002	8:00:00	9.6	10.53	30.09	34.15	2.99	6.61	1.15
63	02/08/2002	20:00:00	9.6	10.51	30.06	34.12	2.96	6.64	1.18
64	02/09/2002	8:00:00	9.94	10.31	30.42	34.53	3.37	6.57	1.11
65	02/09/2002	20:00:00	10.05	10.35	30.48	34.59	3.43	6.62	1.16
66	02/10/2002	8:00:00	9.93	10.6	30.27	34.36	3.20	6.73	1.27
67	02/10/2002	20:00:00	9.35	10.31	29.83	33.86	2.70	6.65	1.19
68	02/11/2002	8:00:00	9.31	10.47	29.80	33.82	2.66	6.65	1.19
69	02/11/2002	20:00:00	9.8	10.6	30.21	34.29	3.13	6.67	1.21
70	02/12/2002	8:00:00	9.69	10.31	30.06	34.12	2.96	6.73	1.27
71	02/12/2002	20:00:00	9.49	10.37	29.89	33.93	2.77	6.72	1.26
72	02/13/2002	8:00:00	9.7	10.65	30.06	34.12	2.96	6.74	1.28
73	02/13/2002	20:00:00	9.96	10.63	30.30	34.39	3.23	6.73	1.27
74	02/14/2002	8:00:00	10.08	10.36	30.45	34.56	3.40	6.68	1.22
75	02/14/2002	20:00:00	10.01	10.67	30.39	34.49	3.33	6.68	1.22
76	02/15/2002	8:00:00	9.9	10.31	30.27	34.36	3.20	6.70	1.24
77	02/15/2002	20:00:00	9.59	10.65	30.01	34.06	2.90	6.69	1.23
78	02/16/2002	8:00:00	9.42	10.46	29.89	33.93		6.65	1.19
79	02/16/2002	20:00:00	9.26	10.49	29.71	33.72	2.56	6.70	1.24
80	02/17/2002	8:00:00	9.26	10.6	29.77	33.79	2.63	6.63	1.17
81	02/17/2002	20:00:00	9.49	10.59	29.98	34.03		6.62	1.16
82	02/18/2002	8:00:00	9.77	10.27	30.27	34.36	3.20	6.57	1.11

-							Barometric pressure- Elevation		
						Barometric	corrected	!	
					Barometric	Pressure in	barometric		
1			Channel 1	Channel 2	Pressure in	water column	pressure offset	Compensated	Ground Water
No.	Date	Time	(ft)	(deg. C)	inch Hg	equivalent (ft)	value	Water Level (ft)	Elevation (ft)
83	02/18/2002	20:00:00	9.84	10.59	30.27	34.36		6.64	1.18
84	02/19/2002	8:00:00	9.84	10.55	30.30	34.39	3.23	6.61	1.15
85	02/19/2002	20:00:00	9.71	10.57	30.21	34.29	3.13	6.58	1.12
86	02/20/2002	8:00:00	9.53	10.37	30.06	34.12	2.96	6.57	1.11
87	02/20/2002	20:00:00	9.22	10.55	29.80	33.82	2.66	6.56	1.10
88	02/21/2002	8:00:00	9.18	10.46	29.83	33.86	2.70	6.48	1.02
89	02/21/2002	20:00:00	9.23	10.42	29.86	33.89	2.73	6.50	1.04
90	02/22/2002	8:00:00	9.29	10.3	29.95	33.99	2.83	6.46	1.00
91	02/22/2002	20:00:00	9.41	10.35	30.04	34.10	2.94	6.47	1.01
92	02/23/2002	8:00:00	9.46	10.39	30.15	34.22	3.06	6.40	0.94
93	02/23/2002	20:00:00	9.44	10.55	30.15	34.22	3.06	6.38	0.92
94	02/24/2002	8:00:00	9.59	10.27	30.27	34.36	3.20	6.39	0.93
95	02/24/2002	20:00:00	9.53	10.43	30.24	34.32	3.16	6.37	0.91
96	02/25/2002	8:00:00	9.52	10.22	30.24	34.32	3.16	6.36	0.90
97	02/25/2002	20:00:00	9.29	10.56	30.04	34.10		6.35	0.89
98	02/26/2002	8:00:00	9	10.27	29.80	33.82	2.66	6.34	0.88
99	02/26/2002	20:00:00	8.7	10.31	29.62	33.62	2.46	6.24	0.78
100	02/27/2002	8:00:00	8.86	10.49	29.71	33.72	2.56	6.30	0.84
101	02/27/2002	20:00:00	8.9	10.25	29.83	33.86	2.70	6.20	0.74
102	02/28/2002	8:00:00	9.21	10.31	30.09	34.15	2.99	6.22	0.76
103	02/28/2002	20:00:00	9.28	10.59	30.21	34.29	3.13	6.15	0.69
104	03/01/2002	8:00:00	9.55	10.26	30.45	34.56	3.40	6.15	0.69
105	03/01/2002	20:00:00	9.59	10.53	30.51	34.63		6.12	0.66
106	03/02/2002	8:00:00	9.61	10.31	30.54	34.66	3.50	6.11	0.65
107	03/02/2002	20:00:00	9.17	10.35	30.12	34.19	3.03	6.14	0.68
108	03/03/2002	8:00:00	8.69	10.52	29.68	33.69	2.53	6.16	0.70
109	03/03/2002	20:00:00	· 8.73	10.3	29.74	33.75	2.59	6.14	0.68
110	03/04/2002	8:00:00	9.03	10.3	30.04	34.10	2.94	6.09	0.63
111	03/04/2002	20:00:00	9.23	10.34	30.18	34.25	3.09	6.14	0.68
112	03/05/2002	8:00:00	9.49	10.35	30.42	34.53	3.37	6.12	0.66
113	03/05/2002	20:00:00	9.39	10.49	30.30	34.39	3.23	6.16	0.70

							Barometric		j
							pressure-		
ŀ							Elevation		
1						Barometric	corrected		
					Barometric	Pressure in	barometric		
			Channel 1	Channel 2	Pressure in	water column	pressure offset	Compensated	Ground Water
No.	Date	Time	(ft)	(deg. C)	inch Hg	equivalent (ft)	value	Water Level (ft)	Elevation (ft)
							3.39		0.55
114	03/06/2002	8:00:00	9.4	10.57	30.44	34.55 34.25	3.09	6.01 6.15	0.55
115	03/06/2002	20:00:00	9.24	10.39		34.25	3.09	6.13	0.69
116	03/07/2002	8:00:00	9.33	10.63			3.20	6.09	0.63
117	03/07/2002	20:00:00	9.29	10.49	30.27	34.36			
118	03/08/2002	8:00:00	9.43	10.49	30.42	34.53	3.37	6.06	0.60
119	03/08/2002	20:00:00	9.4	10.41	30.36	34.46	3.30	6.10	0.64
120	03/09/2002	8:00:00	9.39	10.65	30.39	34.49	3.33	6.06	0.60
121	03/09/2002	20:00:00	9	10.32	30.01	34.06	2.90	6.10	0.64
122	03/10/2002	8:00:00	9.07	10.6	30.12	34.19	3.03	6.04	0.58
123	03/10/2002	20:00:00	9.22	10.32	30.24	34.32	3.16	6.06	0.60
124	03/11/2002	8:00:00	9.46	10.54	30.48	34.59	3.43	6.03	0.57
125	03/11/2002	20:00:00	9.32	10.29	30.33	34.42	3.26	6.06	0.60
126	03/12/2002	8:00:00	9.19	10.49	30.21	34.29	3.13	6.06	0.60
127	03/12/2002	20:00:00	9.06	10.57	30.12	34.19	3.03	6.03	0.57
128	03/13/2002	8:00:00	8.86	10.33	29.95	33.99	2.83	6.03	0.57
129	03/13/2002	20:00:00	8.67	10.3	29.80	33.82	2.66	6.01	0.55
130	03/14/2002	8:00:00	8.89	10.24	30.04	34.10	2.94	5.95	0.49
131	03/14/2002	20:00:00	8.93	10.26	30.04	34.10	2.94	5.99	0.53
132	03/15/2002	8:00:00	8.91	10.54	30.01	34.06	2.90	6.01	0.55
133	03/15/2002	20:00:00	8.77	10.53	29.86	33.89	2.73	6.04	0.58
134	03/16/2002	8:00:00	8.74	10.59	29.86	33.89	2.73	6.01	0.55
135	03/16/2002	20:00:00	9.09	10.27	30.15	34.22	3.06	6.03	0.57
136	03/17/2002	8:00:00	9.39	10.24	30.42	34.53	3.37	6.02	0.56
137	03/17/2002	20:00:00	9.34	10.31	30.39	34.49	3.33	6.01	0.55
138	03/18/2002	8:00:00	9.21	10.28	30.24	34.32	3.16	6.05	0.59
139	03/18/2002	20:00:00	9.2	10.31	30.24	34.32	3.16	6.04	0.58
140	03/19/2002	8:00:00	9.34	10.36	30.36	34.46	3.30	6.04	0.58
141	03/19/2002	20:00:00	9.32	10.31	30.33	34.42	3.26	6.06	0.60
142	03/20/2002	8:00:00	9.11	10.4	30.09	34.15	2.99	6.12	0.66
143	03/20/2002	20:00:00	8.89	10.34	29.92	33.96	2.80	6.09	0.63
144	03/21/2002	8:00:00	9.07	10.32	30.04	34.10	2.94	6.13	0.67

	_						Barometric pressure-		
							Elevation		
]					Barometric	corrected		
					Barometric	Pressure in	barometric		
			Channel 1	Channel 2	Pressure in	water column	pressure offset	Compensated	Ground Water
No.	Date	Time	(ft)	(deg. C)	inch Hg	equivalent (ft)	value	Water Level (ft)	Elevation (ft)
145	03/21/2002	20:00:00	8.79	10.62	29.71	33.72	2.56		0.77
146	03/22/2002	8:00:00	9.33	10.31	30.15	34.22	3.06		0.81
147	03/22/2002	20:00:00	9.43	10.43	30.15	34.22	3.06	6.37	0.91
148	03/23/2002	8:00:00	9.53	10.57	30.21	34.29	3.13	6.40	0.94
149	03/23/2002	20:00:00	9.35	10.63	29.98	34.03	2.87	6.48	1.02
150	03/24/2002	8:00:00	9.59	10.45	30.15	34.22	3.06	6.53	1.07
151	03/24/2002	20:00:00	9.51	10.51	30.04	34.10	2.94	6.57	1.11
152	03/25/2002	8:00:00	9.71	10.28	30.21	34.29	3.13		1.12
153	03/25/2002	20:00:00	9.81	10.28	30.27	34.36	3.20	6.61	1.15
154	03/26/2002	8:00:00	9.79	10.32	30.24	34.32	3.16	6.63	1.17
155	03/26/2002	20:00:00	9.35	10.3	29.92	33.96	2.80	6.55	1.09
156	03/27/2002	8:00:00	9.5	10.27	30.01	34.06	2.90	6.60	1.14
157	03/27/2002	20:00:00	9.61	10.32	30.09	34.15	2.99	6.62	1.16
158	03/28/2002	8:00:00	9.74	10.33	30.21	34.29	3.13		1.15
159	03/28/2002	20:00:00	9.63	10.27	30.09	34.15	2.99	6.64	1.18
160	03/29/2002	8:00:00	9.71	10.33	30.12	34.19	3.03	6.68	1.22
161	03/29/2002	20:00:00	9.5	10.53	29.92	33.96	2.80		1.24
162	03/30/2002	8:00:00	9.42	10.25	29.83	33.86	2.70		1.26
163	03/30/2002	20:00:00	9.63	10.26	30.01	34.06	2.90		1.27
164	03/31/2002	8:00:00	9.7	10.49	30.09	34.15	2.99		1.25
165	03/31/2002	20:00:00	9.53	10.53	29.92	33.96	2.80		1.27
166	04/01/2002	8:00:00	9.44	10.49	29.86	33.89			1.25
167	04/01/2002	20:00:00	9.62	10.26	29.98	34.03			1.29
168	04/02/2002	8:00:00	9.78	10.27	30.12	34.19			1.29
169	04/02/2002	20:00:00	9.53	10.21	29.89	33.93	2.77		1.30
170	04/03/2002	8:00:00	9.42	10.29	29.83	33.86	2.70	6.72	1.26

Stancill Quarry, Furnace Bay

Project # 01116.00

Instrument type : LT-Levelogger 26800

Instrument number : 26800-SO#34615

Location : Piezometer #6 Stancill Quarry

Sample mode : T

Channel 1 : LEVEL

Reference : 0.00 ft

Range: 32.80 ft

Master level: 0.00 ft

Channel 2: TEMPERATURE

Reference: -20.00 DEG C

Range : 100.00 DEG C

			narige . To	00.00 DEG C	Barometric	
į					Pressure in	
			Channel 1	Channel 2	water column	Compensated
No.	Date	Time	(ft)	(deg. C)	equivalent (ft)	Water Level (ft)
1 1	12/11/2001	12:00:00	10.62	12.17	1.44	9.18
2	12/11/2001	13:00:00	10.62	12.17	1.44	9.19
3	12/11/2001	14:00:00		12.12	1.44	9.16
. 4	12/11/2001	15:00:00	10.6	12.09	1.44	9.16
5	12/11/2001	16:00:00	10.61	12.08	1.44	9.17
6	12/11/2001	17:00:00	10.65	12.00	1.43	9.22
7	12/11/2001	18:00:00	10.65	12.12	1.43	9.25
8	12/11/2001	19:00:00	10.68	12.09	1.43	9.25
9	12/11/2001	20:00:00		12.07	1.43	9.26
10	12/11/2001	21:00:00	10.69 10.72	12.09	1.43	9.29
11	12/11/2001	22:00:00	10.72	12.09	1.43	9.27
12	12/11/2001	23:00:00	10.73	12.09	1.43	9.30
13	12/11/2001	0:00:00	10.73	12.12	1.43	9.30
14		1:00:00	10.73	12.12	1.43	9.29
15	12/12/2001		10.72	12.09	1.43	9.29
16	12/12/2001	2:00:00		12.09	1.43	9.32
_	12/12/2001	3:00:00	10.74 10.73	12.13	1.42	9.32
17	12/12/2001	4:00:00		12.15	1.42	9.33
18	12/12/2001	5:00:00	10.75	12.11		9.33
19	12/12/2001	6:00:00	10.75		1.42	9.35
20	12/12/2001	7:00:00	10.77	12.1	1.42	9.35
21	12/12/2001	8:00:00	10.78	12.07	1.42 1.42	9.36
22	12/12/2001	9:00:00	10.79			
23	12/12/2001	10:00:00	10.78	12.11		9.36
24	12/12/2001	11:00:00	10.76		1.42 1.41	9.34
25	12/12/2001	12:00:00	10.73	12.12		9.32 9.29
26	12/12/2001	13:00:00	10.7		1.41	
27	12/12/2001	14:00:00	10.67	12.12	1.41	9.26
28	12/12/2001	15:00:00	10.64		1.41	9.23
29	12/12/2001	16:00:00	10.64			9.23
30	12/12/2001	17:00:00	10.64	12.09		9.23
31	12/12/2001	18:00:00	10.61	12.07		9.20
32	12/12/2001	19:00:00	10.62		1.41	9.21
33	12/12/2001	20:00:00		 	i	9.23
34	12/12/2001	21:00:00				9.20
35	12/12/2001	22:00:00	10.59	12.08	1.40	9.19

36	12/12/2001	23:00:00	10.55	12.13	1.40	9.15
37	12/13/2001	0:00:00	10.53	12.18	1.40	9.13
38	12/13/2001	1:00:00	10.5	12.11	1.40	9.10
39	12/13/2001	2:00:00	10.47	12.12	1.40	9.07
40	12/13/2001	3:00:00	10.42	12.09	1.40	9.02
41	12/13/2001	4:00:00	10.39	12.08	1.40	8.99
42	12/13/2001	5:00:00	10.38	12.12	1.40	8.98
43	12/13/2001	6:00:00	10.35	12.13	1.40	8.95
44	12/13/2001	7:00:00	10.35	12.1	1.39	8.96
45	12/13/2001	8:00:00	10.33	12.11	1.39	8.94
46	12/13/2001	9:00:00	10.32	12.08	1.39	8.93
47	12/13/2001	10:00:00	10.31	12.12	1.39	8.92
48	12/13/2001	11:00:00	10.29	12.08	1.39	8.90
49	12/13/2001	12:00:00	10.26	12.08	1.39	8.87
50	12/13/2001	13:00:00	10.24	12.07	1.39	8.85
51	12/13/2001	14:00:00	10.21	12.08	1.39	8.82
52	12/13/2001	15:00:00	10.18	12.08	1.39	8.79
53	12/13/2001	16:00:00	10.2	12.12	1.38	
54	12/13/2001	17:00:00	10.18	12.17	1.38	8.80
55	12/13/2001	18:00:00	10.21	12.1	1.38	8.83
56	12/13/2001	19:00:00	10.21	12.13	1.38	8.83
57	12/13/2001	20:00:00	10.19	12.08	1.38	8.81
58	12/13/2001	21:00:00	10.19	12.13	1.38	8.81
59	12/13/2001	22:00:00	10.16	12.06	1.38	8.78
60	12/13/2001	23:00:00	10.18	12.05	1.38	8.80
61	12/14/2001	0:00:00	10.19	12.07	1.38	8.81
62	12/14/2001	1:00:00	10.18	12.09	1.37	8.81
63	12/14/2001	2:00:00	10.19	12.1	1.37	8.82
64	12/14/2001	3:00:00	10.18	12.09	1.37	8.81
65	12/14/2001	4:00:00	10.18	12.09	1.37	8.81
66	12/14/2001	5:00:00	10.19	12.14	1.37	8.82
67	12/14/2001	6:00:00	10.19	12.12	1.37	8.82
68	12/14/2001	7:00:00	10.17	12.07	1.37	8.80
69	12/14/2001	8:00:00	10.18	12.1	1.37	8.81
70	12/14/2001	9:00:00	10.18	12.09	1.37	8.81
71	12/14/2001	10:00:00	10.15	12.19	1.37	8.78
72	12/14/2001	11:00:00	10.11	12.17	1.36	
73	12/14/2001	12:00:00	10.09	12.07	1.36	8.73
74	12/14/2001	13:00:00	10.02	12.11	1.36	8.66
75	12/14/2001	14:00:00	10	12.18		
76	12/14/2001	15:00:00	9.98	12.06		
77	12/14/2001	16:00:00	9.96	12.04		
78	12/14/2001	17:00:00	9.93	12.05		
79	12/14/2001	18:00:00	9.93	12.07	1.36	-
80	12/14/2001	19:00:00	9.93	12.08		
81	12/14/2001	20:00:00	9.9	12.21	1.35	
82	12/14/2001	21:00:00	9.93	12.12		
83	12/14/2001	22:00:00	9.94	12.03		
84	12/14/2001		9.99	12.09	+	
85	12/15/2001	0:00:00	10	12.09	1.35	8.65
86	12/15/2001 12/15/2001	1:00:00 2:00:00	10.05 10.09	12.05 12.07		

88	12/15/2001	3:00:00	10.13	12.07	1.35	8.78
89	12/15/2001	4:00:00	10.15	12.06	1.35	8.80
90	12/15/2001	5:00:00	10.2	12.09	1.34	8.86
91	12/15/2001	6:00:00	10.26	12.09	1.34	8.92
92	12/15/2001	7:00:00	10.33	12.07	1.34	8.99
93	12/15/2001	8:00:00	10.38	12.08	1.34	9.04
94	12/15/2001	9:00:00	10.43	12.08	1.34	9.09
95	12/15/2001	10:00:00	10.44	12.11	1.34	9.10
96	12/15/2001	11:00:00	10.5	12.08	1.34	9.16
97	12/15/2001	12:00:00	10.5	12.09	1.34	9.16
98	12/15/2001	13:00:00	10.5	12.07	1.34	9.16
99	12/15/2001	14:00:00	10.5	12.05	1.34	9.16
100	12/15/2001	15:00:00	10.5	12.04	1.33	9.17
101	12/15/2001	16:00:00	10.54	12.14	1.33	9.21
102	12/15/2001	17:00:00	10.57	12.07	1.33	9.24
103	12/15/2001	18:00:00	10.62	12.07	1.33	9.29
104	12/15/2001	19:00:00	10.67	12.05	1.33	9.34
105	12/15/2001	20:00:00	10.66	12.07	1.33	9.33
106	12/15/2001	21:00:00	10.68	12.04	1.33	9.35
107	12/15/2001	22:00:00	10.66	12.01	1.33	9.33
108	12/15/2001	23:00:00	10.68	12.13	1.33	9.35
109	12/16/2001	0:00:00	10.66	12.04	1.32	9.34
110	12/16/2001	1:00:00	10.68	12.08	1.32	9.36
111	12/16/2001	2:00:00	10.66	12.05	1.32	9.34
112	12/16/2001	3:00:00	10.69	12.05	1.32	9.37
113	12/16/2001	4:00:00	10.69	12.06	1.32	9.37
114	12/16/2001	5:00:00	10.73	12.16	1.32	9.41
115	12/16/2001	6:00:00	10.72	12.01	1.32	9.40
116	12/16/2001	7:00:00	10.72	12.05	1.32	9.40
117	12/16/2001	8:00:00	10.75	12.04	1.32	9.43
118	12/16/2001	9:00:00	10.76	12.17	1.31	9.45
119	12/16/2001	10:00:00	10.73	12.08	1.31	9.42
120	12/16/2001	11:00:00	10.73	12.07	1.31	9.42
121	12/16/2001	12:00:00	10.69	12.21	1.31	9.38
122	12/16/2001	13:00:00	10.66	12.07	1.31	9.35
	12/16/2001		10.63		1.31	9.32
124		15:00:00	10.65	12.08	1.31	9.34
125	12/16/2001	16:00:00	10.63	12.1	1.31	9.32
126	12/16/2001	17:00:00	10.64	12.17	1.31	9.33
127	12/16/2001	18:00:00	10.61	12.19	1.31	9.30
128	12/16/2001	19:00:00	10.6	12.05	1.30	9.30
129		20:00:00	10.63	12.09	1.30	9.33
130		21:00:00	10.59	12.1	1.30	9.29
131	12/16/2001	22:00:00	10.57	12.01	1.30	9.27
132		23:00:00	10.55		1.30	9.25
133		0:00:00	10.52	12.03		
134		1:00:00	10.5	12.1	1.30	9.20
135		2:00:00	10.48	12.1	1.30	9.18
136		3:00:00	10.46		1.30	9.16
137		4:00:00	10.43		1.29	9.14
138		5:00:00	10.39		1.29	9.10
139		6:00:00	10.39			9.10
	12/1/2001	3.00.00	. 0.50		.,,25	3110

Page 3

140	12/17/2001	7:00:00	10.37	12.07	1.29	9.08
141	12/17/2001	8:00:00	10.36	12.05	1.29	9.07
142	12/17/2001	9:00:00	10.31	12	1.29	9.02
143	12/17/2001	10:00:00	10.29	12	1.29	9.00
144	12/17/2001	11:00:00	10.24	12.14	1.29	8.95
145	12/17/2001	12:00:00	10.17	12.01	1.29	8.88
146	12/17/2001	13:00:00	10.12	12.05	1.28	8.84
147	12/17/2001	14:00:00	10.05	12.01	1.28	8.77
148	12/17/2001	15:00:00	10	12.01	1.28	8.72
149	12/17/2001	16:00:00	[.] 9.96	12.02	1.28	8.68
150	12/17/2001	17:00:00	9.96	12.05	1.28	8.68
151	12/17/2001	18:00:00	9.9	12.04	1.28	8.62
152	12/17/2001	19:00:00	9.87	12.05	1.28	8.59
153	12/17/2001	20:00:00	9.83	12.17	1.28	8.55
154	12/17/2001	21:00:00	9.79	12.07	1.28	8.51
155	12/17/2001	22:00:00	9.76	12.09	1.28	8.48
156	12/17/2001	23:00:00	9.67	12.05	. 1.27	8.40
157	12/18/2001	0:00:00	9.65	12.07	1.27	8.38
158	12/18/2001	1:00:00	9.6	12	1.27	8.33
159	12/18/2001	2:00:00	9.53	12.01	1.27	8.26
160	12/18/2001	3:00:00	9.47	12.12	1.27	8.20
161	12/18/2001	4:00:00	9.43	12.02	1.27	8.16
162	12/18/2001	5:00:00	9.41	12.01	1.27	8.14
163	12/18/2001	6:00:00	9.47	12	1.27	8.20
164	12/18/2001	7:00:00	9.51	12.05	1.27	8.24
165	12/18/2001	8:00:00	9.58	12.07	1.26	8.32
166	12/18/2001	9:00:00	9.63	11.97	1.26	8.37
167	12/18/2001	10:00:00	9.67	12.04	1.26	8.41
168	12/18/2001	11:00:00	9.7	11.97	1.26	
169	12/18/2001	12:00:00	9.7	12.01	1.26	8.44
170	12/18/2001	13:00:00	9.74	12.03		
171	12/18/2001	14:00:00	9.74	11.99		8.48
172	12/18/2001	15:00:00	9.77	12.01	1.26	8.51
173	12/18/2001	16:00:00	9.82		1.26	8.56
174	12/18/2001	17:00:00	9.86			8.61
*	12/18/2001	18:00:00	9.87		1.25	8.62
176	12/18/2001	19:00:00	9.9		· · · · · · · · · · · · · · · · · · ·	
177	12/18/2001	20:00:00	9.91	11.99	1.25	8.66
178	12/18/2001	21:00:00	9.95		1.25	8.70
179	12/18/2001	22:00:00	9.96	ļ		
180	12/18/2001	23:00:00	9.98			
181	12/19/2001	0:00:00	9.99			
182	12/19/2001	1:00:00	10			
183	12/19/2001	2:00:00	10.04			
184	12/19/2001	3:00:00	10.06			
185	12/19/2001	4:00:00	10.06			
186	12/19/2001	5:00:00	10.08			
187	12/19/2001	6:00:00	10.08			
188	12/19/2001	7:00:00	10.09			
189	12/19/2001	8:00:00	10.11			
190	12/19/2001	9:00:00				
191	12/19/2001	10:00:00				
		. 3.33.00				J.00

192	12/19/2001	11:00:00	10.08	12.02	1.24	8.84
193	12/19/2001	12:00:00	10.05	12	1.23	8.82
194	12/19/2001	13:00:00	10.04	11.97	1.23	8.81
195	12/19/2001	14:00:00	10	12	1.23	8.77
196	12/19/2001	15:00:00	10	12.02	1.23	8.77
197	12/19/2001	16:00:00	9.98	12.05	1.23	8.75
198	12/19/2001	17:00:00	9.95	11.99	1.23	8.72
199	12/19/2001	18:00:00	9.95	11.95	1.23	8.72
200	12/19/2001	19:00:00	9.94	12.01	1.23	8.71
201	12/19/2001	20:00:00	9.93	11.97	1.23	8.70
202	12/19/2001	21:00:00	9.91	12.03	1.22	8.69
203	12/19/2001	22:00:00	9.89	11.99	1.22	8.67
204	12/19/2001	23:00:00	9.87	12.13	1.22	8.65
205	12/20/2001	0:00:00	9.86	12.01	1.22	8.64
206	12/20/2001	1:00:00	9.84	12	1.22	8.62
207	12/20/2001	2:00:00	9.84	11.98	1.22	8.62
208	12/20/2001	3:00:00	9.84	11.97	1.22	8.62
209	12/20/2001	4:00:00	9.85	12.12	1.22	8.63
210	12/20/2001	5:00:00	9.88	11.99	1.22	8.66
211	12/20/2001	6:00:00	9.93	12	1.22	8.71
212	12/20/2001	7:00:00	9.92	11.94	1.21	8.71
213	12/20/2001	8:00:00	9.97	11.99	1.21	8.76
214	12/20/2001	9:00:00	10.02	11.97	1.21	8.81
215	12/20/2001	10:00:00	10.04	12.01	1.21	8.83
216	12/20/2001	11:00:00	10.05	11.99	1.21	8.84
217	12/20/2001	12:00:00	10.01	11.93	1.21	8.80
218	12/20/2001	13:00:00	10.01	12.03	1.21	8.80
219	12/20/2001	14:00:00	10.02	11.97	1.21	8.81
220	12/20/2001	15:00:00	10.05	11.97	1.21	8.84
221	12/20/2001	16:00:00	10.07	11.99	1.20	8.87
222	12/20/2001	17:00:00	10.09	12.01	1.20	8.89
223	12/20/2001	18:00:00	10.1	12.01	1.20	8.90
224	12/20/2001	19:00:00	10.1	11.99	1.20	8.90
225	12/20/2001	20:00:00	10.11	12.05	1.20	8.91
226	12/20/2001	21:00:00	10.09	12.05	1.20	8.89
· 227			10.08			
228		23:00:00	10.08		1.20	
229		0:00:00	10.08	11.95		
230		1:00:00	10.08	12.01	1.19	
231	12/21/2001	2:00:00	10.08		1.19	· · · · · · · · · · · · · · · · · · ·
232	12/21/2001	3:00:00	10.12	11.96		
233	12/21/2001	4:00:00	10.13	12		
234	12/21/2001	5:00:00	10.16	12.07	1.19	
235		6:00:00	10.15		1.19	<u> </u>
236		7:00:00	10.18			
237	12/21/2001	8:00:00	10.21	12.07	·	
238		9:00:00	10.23			
239		10:00:00	10.24			
240		11:00:00	10.24			
241	12/21/2001	12:00:00	10.23			
242		13:00:00	10.23			
243		14:00:00	10.24			
	12/21/2001	1-7.00.00	10.27	12.00	1.10	1 3.00

244	12/21/2001	15:00:00	10.29	11.96	1.18	9.11
245	12/21/2001	16:00:00	10.3	11.93	1.18	9.12
246	12/21/2001	17:00:00	10.34	11.94	1.18	9.16
247	12/21/2001	18:00:00	10.37	11.98	1.18	9.19
248	12/21/2001	19:00:00	10.4	11.96	1.18	9.22
249	12/21/2001	20:00:00	10.42	11.96	1.17	9.25
250	12/21/2001	·21:00:00	10.45	11.99	1.17	9.28
251	12/21/2001	22:00:00	10.44	11.95	1.17	9.27
252	12/21/2001	23:00:00	10.46	11.97	1.17	9.29
253	12/22/2001	0:00:00	10.47	11.99	1.17	9.30
254	12/22/2001	1:00:00	10.49	11.93	1.17	9.32
255	12/22/2001	2:00:00	10.5	12.01	1.17	9.33
256	12/22/2001	3:00:00	10.52	11.96	1.17	9.35
257	12/22/2001	4:00:00	10.53	11.94	1.17	9.36
258	12/22/2001	5:00:00	10.54	12.09	1.17	9.37
259	12/22/2001	6:00:00	10.54	12.09	1.16	9.38
260	12/22/2001	7:00:00	10.55	11.94	1.16	9.39
261	12/22/2001	8:00:00	10.57	11.94	1.16	9.41
262	12/22/2001	9:00:00	10.6	12	1.16	9.44
263	12/22/2001	10:00:00	10.61	11.99	1.16	9.45
264	12/22/2001	11:00:00	10.58	12	1.16	9.42
265	12/22/2001	12:00:00	10.56	11.93	1.16	9.40
266	12/22/2001	13:00:00	10.53		1.16	9.37
267	12/22/2001	14:00:00	10.53	12.05	1.16	9.37
268	12/22/2001	15:00:00	10.5		1.15	9.35
269	12/22/2001	16:00:00	10.51	11.97	1.15	9.36
270	12/22/2001	17:00:00	10.5	11.97	1.15	9.35
271	12/22/2001	18:00:00	10.51	12.07	1.15	9.36
272	12/22/2001	19:00:00	10.48		1.15	9.33
273	12/22/2001	20:00:00	10.48		1.15	9.33
274	12/22/2001	21:00:00	10.49		1.15	9.34
275	12/22/2001	22:00:00	10.48		1.15	9.33
276	12/22/2001	23:00:00	10.46		1.15	9.31
277	12/23/2001	0:00:00	10.44		1.14	9.30
278	12/23/2001	1:00:00	10.42		1.14	9.28
	12/23/2001	2:00:00			1.14	9.29
280	12/23/2001	3:00:00	10.4	ļ	1.14	
281	12/23/2001	4:00:00	10.38		1.14	
282	12/23/2001	5:00:00	10.39		1.14	·
283	12/23/2001	6:00:00	10.35		1.14	
284	12/23/2001	7:00:00	10.33		1.14	
285		8:00:00	10.33			
286		9:00:00	10.33			
287	12/23/2001	10:00:00	10.3		1.13	
288	12/23/2001	11:00:00	10.26			
289		12:00:00	10.19		1.13	
290		13:00:00	10.16			
291	12/23/2001	14:00:00	10.14			
292		15:00:00				
293		16:00:00				
294		17:00:00				8.96
295		18:00:00			4 	
	·	·				

296	12/23/2001	19:00:00	10.06	11.89	1.12	8.94
297	12/23/2001	20:00:00	10.02	11.91	1.12	8.90
298	12/23/2001	21:00:00	9.99	11.89	1.12	8.87
299	12/23/2001	22:00:00	9.96	11.89	1.12	8.84
300	12/23/2001	23:00:00	9.91	12.02	1.12	8.79
301	12/24/2001	0:00:00	9.93	11.92	1.12	8.81
302	12/24/2001	1:00:00	9.88	11.88	1.12	8.76
303	12/24/2001	2:00:00	9.89	12.01	1.12	8.77
304	12/24/2001	3:00:00	9.88	11.92	1.12	8.76
305	12/24/2001	4:00:00	9.87	11.98	1.11	8.76
306	12/24/2001	5:00:00	9.88	11.87	1.11	8.77
307	12/24/2001	6:00:00	9.89	12.02	1.11	8.78
308	12/24/2001	7:00:00	9.87	11.89	1.11	8.76
309	12/24/2001	8:00:00	9.92	11.97	1.11	8.81
310	12/24/2001	9:00:00	9.92	11.94	1.11	8.81
311	12/24/2001	10:00:00	9.91	11.93	1.11	8.80
312	12/24/2001	11:00:00	9.89	11.93	1.11	8.78
313	12/24/2001	12:00:00	9.87	12.01	1.11	8.76
314	12/24/2001	13:00:00	9.87	12.04	1.11	8.76
315	12/24/2001	14:00:00	9.87	11.91	1.10	8.77
316	12/24/2001	15:00:00	9.87	11.86	1.10	8.77
317	12/24/2001	16:00:00	9.87	11.93	1.10	8.77
318	12/24/2001	17:00:00	9.89	11.93	1.10	8.79
319	12/24/2001	18:00:00	9.92	11.89	1.10	8.82
320	12/24/2001	19:00:00	9.94	11.92	1.10	8.84
321	12/24/2001	20:00:00	9.98	11.87	1.10	8.88
322	12/24/2001	21:00:00	10.01	11.89	1.10	8.91
323	12/24/2001	22:00:00	10.01	11.93	1.10	8.91
324	12/24/2001	23:00:00	10.01	12.05	1.09	8.92
325	12/25/2001	0:00:00	10.01	11.89	1.09	8.92
326	12/25/2001	1:00:00	10.04	11.88	1.09	8.95
327 328	12/25/2001	2:00:00	10.06	11.86	1.09	8.97
	12/25/2001	3:00:00	10.05	11.99	1.09	8.96
329 330	12/25/2001	4:00:00	10.07	11.88	1.09	8.98
330	12/25/2001 12/25/2001	5:00:00	10.1	11.87	1.09 1.09	9.01
332	~~···	6:00:00		11.86		
333	12/25/2001 12/25/2001	7:00:00 8:00:00	10.12 10.16	11.85 11.89	1.09 1.08	9.03 9.08
334	12/25/2001	9:00:00	10.18	11.88	1.08	
335	12/25/2001	10:00:00	10.16	11.85	1.08	
336	12/25/2001	11:00:00	10.16	11.83	1.08	
337	12/25/2001	12:00:00	10.14	11.88	1.08	
338	12/25/2001	13:00:00	10.11	11.89	1.08	
339	12/25/2001	14:00:00	10.11	11.85	1.08	
340	12/25/2001	15:00:00	10.03	11.85	1.08	
341	12/25/2001	16:00:00	10.07		1.08	
342	12/25/2001	17:00:00	10.07	11.87	1.08	8.99
343	12/25/2001	18:00:00	10.09		1.07	9.02
344	12/25/2001	19:00:00	10.03	11.85	1.07	9.04
345	12/25/2001	20:00:00	10.12		1.07	9.05
346	12/25/2001	21:00:00	10.12	11.87	1.07	9.04
347	12/25/2001	22:00:00		11.85	1.07	9.04
	12,20,2001	00.00	10.11	. 1.00	1.57	1 3.04

348 12/26/2001 23:00:00 10.11 11.86 1.07 9.04							
350 12/26/2001 1:00:00 10:05 11:79 1.07 8.98 351 12/26/2001 2:00:00 10:05 11:85 1.07 8.98 352 12/26/2001 3:00:00 10:03 11:85 1.06 8.97 353 12/26/2001 4:00:00 9.99 11:85 1.06 8.93 354 12/26/2001 5:00:00 9.99 11:85 1.06 8.93 355 12/26/2001 6:00:00 9.99 11:93 1.06 8.93 356 12/26/2001 6:00:00 9.99 11:93 1.06 8.93 356 12/26/2001 8:00:00 10:03 11:95 1.06 8.93 357 12/26/2001 8:00:00 10:03 11:96 1.06 8.93 358 12/26/2001 9:00:00 10:03 11:96 1.06 8.97 358 12/26/2001 10:00:00 9.95 11:87 1.06 8.89 360 12/26/2001 10:00:00 9.95 11:87 1.06 8.89 360 12/26/2001 11:00:00 9.95 11:87 1.06 8.89 361 12/26/2001 11:00:00 9.95 11:87 1.06 8.89 362 12/26/2001 11:00:00 9.89 11:81 1.05 8.84 363 12/26/2001 11:00:00 9.85 11:87 1.05 8.80 363 12/26/2001 11:00:00 9.85 11:85 1.05 8.80 364 12/26/2001 11:00:00 9.83 11:85 1.05 8.80 365 12/26/2001 11:00:00 9.81 11:81 1.05 8.76 365 12/26/2001 11:00:00 9.81 11:86 1.05 8.76 365 12/26/2001 16:00:00 9.81 11:86 1.05 8.76 366 12/26/2001 16:00:00 9.8 11:87 1.05 8.76 367 12/26/2001 16:00:00 9.78 11:86 1.05 8.73 367 12/26/2001 16:00:00 9.78 11:86 1.05 8.73 368 12/26/2001 16:00:00 9.78 11:86 1.05 8.73 369 12/26/2001 19:00:00 9.78 11:81 1.05 8.74 369 12/26/2001 2:00:00 9.81 11:81 1.05 8.74 369 12/26/2001 2:00:00 9.81 11:81 1.05 8.73 370 12/26/2001 2:00:00 9.81 11:81 1.05 8.73 371 12/26/2001 2:00:00 9.81 11:81 1.05 8.73 372 12/26/2001 2:00:00 9.81 11:81 1.05 8.73 373 12/27/2001 2:00:00 9.81 11:81 1.05 8.73 374 12/27/2001 2:00:00 9.81 11:81 1.04 8.77 375 12/27/2001 2:00:00 9.81 11:85 1.04 8.77 376 12/27/2001 2:00:00 9.81 11:85 1.04 8.77 377 12/26/2001 2:00:00 9.81 11:85 1.04 8.77 379 12/27/2001 5:00:00 9.77 11:79 1.04 8.73 379 12/27/2001 5:00:00 9.77 11:79 1.04 8.73 380 12/27/2001 1:00:00 9.78 11:81 1.03 8.80 381 12/27/2001 1:00:00 9.79 11:85 1.04 8.70 381 12/27/2001 1:00:00 9.79 11:85 1.04 8.70 381 12/27/2001 1:00:00 9.79 11:85 1.04 8.70 381 12/27/2001 1:00:00 9.79 11:85 1.04 8.70 381 12/27/2001 1:00:00 9.79 11:85 1.04 8.70 381 12/27/2001 1:00:00 9.79 11:85 1.00 8.70 381 12/27/2001 1:00:00 9.79 11:85 1.00 8.70 3	348	12/25/2001	23:00:00	10.11	11.86	1.07	9.04
351 12/26/2001 2:00:00 10:03 11:85 1.07 8.98 352 12/26/2001 3:00:00 10:03 11:93 1.06 8.97 353 12/26/2001 4:00:00 9.99 11:85 1.06 8.93 354 12/26/2001 5:00:00 9.99 11:85 1.06 8.93 355 12/26/2001 6:00:00 9.99 11:83 1.06 8.93 356 12/26/2001 7:00:00 10:01 11:83 1.06 8.93 356 12/26/2001 9:00:00 10:03 11:96 1.06 8.93 357 12/26/2001 9:00:00 10:03 11:96 1.06 8.97 358 12/26/2001 10:00:00 9.95 11:87 1.06 8.94 359 12/26/2001 10:00:00 9.95 11:87 1.06 8.99 360 12/26/2001 10:00:00 9.95 11:87 1.06 8.89 361 12/26/2001 11:00:00 9.92 12:01 1.06 8.86 361 12/26/2001 12:00:00 9.88 11:81 1.05 8.84 362 12/26/2001 12:00:00 9.85 11:85 1.05 8.80 363 12/26/2001 11:00:00 9.83 11:81 1.05 8.78 364 12/26/2001 15:00:00 9.81 11:86 1.05 8.78 364 12/26/2001 15:00:00 9.81 11:86 1.05 8.78 365 12/26/2001 15:00:00 9.81 11:86 1.05 8.78 366 12/26/2001 15:00:00 9.78 11:83 1.05 8.78 368 12/26/2001 18:00:00 9.78 11:83 1.05 8.73 368 12/26/2001 18:00:00 9.78 11:83 1.05 8.73 369 12/26/2001 18:00:00 9.78 11:83 1.05 8.73 369 12/26/2001 18:00:00 9.78 11:83 1.05 8.73 369 12/26/2001 12:00:00 9.8 11:84 1.05 8.73 370 12/26/2001 20:00:00 9.78 11:83 1.05 8.73 371 12/26/2001 22:00:00 9.8 11:84 1.05 8.73 373 12/26/2001 20:00:00 9.8 11:84 1.05 8.73 374 12/26/2001 20:00:00 9.8 11:84 1.05 8.73 375 12/26/2001 20:00:00 9.8 11:84 1.05 8.73 376 12/26/2001 10:00:00 9.8 11:84 1.05 8.73 377 12/26/2001 20:00:00 9.8 11:84 1.05 8.73 378 12/27/2001 20:00:00 9.8 11:84 1.04 8.76 375 12/27/2001 20:00:00 9.8 11:85 1.04 8.76 376 12/27/2001 5:00:00 9.78 11:89 1.04 8.76 377 12/27/2001 5:00:00 9.8 11:81 1.04 8.76 378 12/27/2001 5:00:00 9.79 11:89 1.03 8.70 388 12/26/2001 15:00:00 9.8 11:84 1.04 8.76 376 12/27/2001 5:00:00 9.79 11:89 1.03 8.70 389 12/27/2001 5:00:00 9.79 11:89 1.03 8.70 389 12/27/2001 10:00:00 9.8 11:81 1.04 8.76 376 12/27/2001 5:00:00 9.79 11:79 1.04 8.73 389 12/27/2001 10:00:00 9.70 11:79 1.03 8.70 389 12/27/2001 10:00:00 9.70 11:79 1.03 8.70 389 12/27/2001 10:00:00 9.70 11:79 1.03 8.70 389 12/27/2001 10:00:00 9.70 11:79 1.03 8.70 389 12/27/2001 10:00:00 9.70 11:79 1.02 8.	349	12/26/2001	0:00:00	10.08	11.89	1.07	9.01
352 12/26/2001 3:00:00 10:03 11:93 10:6 8.97 353 12/26/2001 5:00:00 9:99 11:85 10:6 8.93 354 12/26/2001 5:00:00 9:99 11:84 10:6 8.93 355 12/26/2001 6:00:00 9:99 11:83 10:6 8.93 356 12/26/2001 7:00:00 10:01 11:83 10:6 8.93 357 12/26/2001 8:00:00 10:03 11:96 10:6 8.93 358 12/26/2001 9:00:00 10:03 11:96 10:6 8.93 359 12/26/2001 10:00:00 9:95 11:87 10:6 8.89 360 12/26/2001 10:00:00 9:95 11:87 10:6 8.89 360 12/26/2001 11:00:00 9:95 11:87 10:6 8.89 361 12/26/2001 11:00:00 9:95 11:87 10:6 8.89 362 12/26/2001 11:00:00 9:89 11:81 10:5 8.84 362 12/26/2001 11:00:00 9:83 11:83 10:5 8.80 363 12/26/2001 11:00:00 9:83 11:83 10:5 8.78 364 12/26/2001 16:00:00 9:81 11:85 10:5 8.78 365 12/26/2001 16:00:00 9:81 11:86 10:5 8.78 366 12/26/2001 16:00:00 9:81 11:86 10:5 8.73 367 12/26/2001 18:00:00 9:78 11:83 10:5 8.73 368 12/26/2001 18:00:00 9:78 11:83 10:5 8.73 368 12/26/2001 19:00:00 9:8 11:81 10:5 8.73 369 12/26/2001 19:00:00 9:8 11:8 10:5 8.73 370 12/26/2001 19:00:00 9:8 11:8 10:5 8.73 371 12/26/2001 19:00:00 9:8 11:8 10:5 8.73 372 12/26/2001 19:00:00 9:8 11:8 10:5 8.73 373 12/26/2001 19:00:00 9:8 11:8 10:5 8.73 374 12/26/2001 19:00:00 9:8 11:8 10:5 8.73 375 12/26/2001 19:00:00 9:8 11:8 10:5 8.75 376 12/26/2001 19:00:00 9:8 11:8 10:5 8.75 377 12/26/2001 19:00:00 9:8 11:8 10:5 8.75 378 12/26/2001 19:00:00 9:8 11:8 10:5 8.75 379 12/26/2001 19:00:00 9:8 11:8 10:5 8.75 370 12/26/2001 19:00:00 9:8 11:8 10:5 8.75 371 12/26/2001 19:00:00 9:8 11:8 10:5 8.75 373 12/26/2001 19:00:00 9:8 11:8 10:5 8.75 376 12/27/2001 10:00:00 9:8 11:8 10:5 8.75 377 12/26/2001 10:00:00 9:8 11:8 10:5 8.75 379 12/27/2001 10:00:00 9:8 11:8 10:5 8.75 379 12/27/2001 10:00:00 9:8 11:8 10:5 8.75 379 12/27/2001 10:00:00 9:8 11:8 10:5 8.75 379 12/27/2001 10:00:00 9:8 11:8 10:5 8.75 379 12/27/2001 10:00:00 9:8 11:8 10:00 8.75 379 12/27/2001 10:00:00 9:8 11:8 10:00 8.75 379 12/27/2001 10:00:00 9:8 11:8 10:00 8.75 379 12/27/2001 10:00:00 9:8 10:00 8.80 389 12/27/2001 10:00:00 9:8 11:8 10:00 8.80 389 12/27/2001 10:00:00 9:8 11:8 10:00 8.80 389 12/27/2001 10:00:00 9:8 11:	350	12/26/2001	1:00:00	10.06	11.79	- 1.07	8.99
353 12/26/2001 5:00:00 9.99 11.85 1.06 8.93 354 12/26/2001 6:00:00 9.99 11.84 1.06 8.93 355 12/26/2001 7:00:00 1.00 1.01 11.83 1.06 8.95 357 12/26/2001 8:00:00 10:03 11.96 1.06 8.95 357 12/26/2001 9:00:00 10:03 11.96 1.06 8.95 358 12/26/2001 10:00:00 9.95 11.87 1.06 8.94 359 12/26/2001 10:00:00 9.95 11.87 1.06 8.89 360 12/26/2001 11:00:00 9.95 11.87 1.06 8.89 360 12/26/2001 11:00:00 9.92 12:01 1.06 8.86 361 12/26/2001 12:00:00 9.88 11.81 1.05 8.84 362 12/26/2001 13:00:00 9.85 11.85 1.05 8.80 363 12/26/2001 14:00:00 9.83 11.83 1.05 8.78 364 12/26/2001 15:00:00 9.81 11.87 1.05 8.70 365 12/26/2001 16:00:00 9.8 11.87 1.05 8.70 365 12/26/2001 16:00:00 9.8 11.87 1.05 8.70 365 12/26/2001 17:00:00 9.78 11.86 1.05 8.73 367 12/26/2001 18:00:00 9.78 11.88 1.05 8.73 367 12/26/2001 18:00:00 9.78 11.88 1.05 8.73 369 12/26/2001 12:00:00 9.8 11.88 1.05 8.73 370 12/26/2001 12:00:00 9.8 11.88 1.05 8.73 371 12/26/2001 12:00:00 9.8 11.88 1.05 8.73 372 12/26/2001 22:00:00 9.8 11.88 1.05 8.75 373 12/26/2001 22:00:00 9.8 11.88 1.05 8.75 374 12/26/2001 22:00:00 9.8 11.88 1.05 8.75 375 12/27/2001 0:00:00 9.8 11.88 1.05 8.75 376 12/27/2001 0:00:00 9.8 11.88 1.05 8.75 377 12/26/2001 22:00:00 9.8 11.88 1.05 8.75 378 12/27/2001 0:00:00 9.8 11.88 1.04 8.77 372 12/26/2001 23:00:00 9.8 11.88 1.04 8.77 374 12/26/2001 0:00:00 9.8 11.88 1.04 8.77 375 12/27/2001 0:00:00 9.8 11.88 1.04 8.76 376 12/27/2001 0:00:00 9.8 11.88 1.04 8.76 377 12/27/2001 0:00:00 9.8 11.89 1.04 8.76 378 12/27/2001 0:00:00 9.78 11.89 1.04 8.76 379 12/27/2001 0:00:00 9.78 11.89 1.04 8.76 379 12/27/2001 1:00:00 9.78 11.89 1.04 8.76 379 12/27/2001 1:00:00 9.78 11.89 1.04 8.76 376 12/27/2001 1:00:00 9.78 11.89 1.04 8.76 377 12/27/2001 0:00:00 9.78 11.89 1.04 8.76 378 12/27/2001 1:00:00 9.78 11.89 1.04 8.76 379 12/27/2001 1:00:00 9.78 11.89 1.03 8.70 389 12/27/2001 1:00:00 9.78 11.89 1.03 8.70 389 12/27/2001 1:00:00 9.79 11.79 1.04 8.73 389 12/27/2001 1:00:00 9.79 11.79 1.02 8.72 390 12/27/2001 1:00:00 9.79 11.79 1.02 8.72 391 12/27/2001 1:00:00 9.79 11.79 1.02 8.75 391 12/27/2	351	12/26/2001	2:00:00	_ 10.05	11.85	1.07	8.98
354 12/26/2001 5:00:00 9:99 11:84 1.06 8.93 355 12/26/2001 7:00:00 10:01 11:83 1.06 8.93 356 12/26/2001 7:00:00 10:01 11:83 1.06 8.95 357 12/26/2001 8:00:00 10:03 11:96 1.06 8.97 358 12/26/2001 9:00:00 10 11:89 1.06 8.97 358 12/26/2001 10:00:00 9:95 11:87 1.06 8.89 360 12/26/2001 11:00:00 9:95 11:87 1.06 8.89 360 12/26/2001 11:00:00 9:92 12:01 1.06 8.86 361 12/26/2001 12:00:00 9:85 11:87 1.05 8.84 362 12/26/2001 13:00:00 9:85 11:85 1.05 8.80 363 12/26/2001 15:00:00 9:85 11:85 1.05 8.80 363 12/26/2001 15:00:00 9:83 11:80 1.05 8.76 364 12/26/2001 15:00:00 9:83 11:87 1.05 8.76 365 12/26/2001 16:00:00 9:8 11:87 1.05 8.76 365 12/26/2001 16:00:00 9:78 11:86 1.05 8.73 367 12/26/2001 18:00:00 9:78 11:81 1.05 8.73 368 12/26/2001 19:00:00 9:78 11:83 1.05 8.73 368 12/26/2001 19:00:00 9:78 11:81 1.05 8.73 369 12/26/2001 19:00:00 9:79 11:81 1.05 8.74 369 12/26/2001 21:00:00 9:8 11:84 1.05 8.73 370 12/26/2001 22:00:00 9:8 11:84 1.05 8.73 371 12/26/2001 22:00:00 9:8 11:88 1.05 8.73 372 12/26/2001 22:00:00 9:8 11:88 1.05 8.75 373 12/27/2001 02:00:00 9:8 11:88 1.05 8.75 374 12/26/2001 22:00:00 9:8 11:88 1.05 8.75 375 12/26/2001 22:00:00 9:8 11:88 1.05 8.75 376 12/27/2001 00:00:00 9:8 11:80 1.04 8.76 377 12/27/2001 00:00:00 9:8 11:80 1.04 8.76 378 12/27/2001 00:00:00 9:8 11:80 1.04 8.76 379 12/27/2001 00:00:00 9:8 11:80 1.04 8.76 379 12/27/2001 00:00:00 9:8 11:80 1.04 8.76 376 12/27/2001 00:00:00 9:8 11:80 1.04 8.76 377 12/27/2001 00:00:00 9:8 11:80 1.04 8.76 378 12/27/2001 00:00:00 9:8 11:80 1.03 8.70 388 12/27/2001 00:00:00 9:8 11:80 1.03 8.70 389 12/27/2001 00:00:00 9:8 11:80 1.03 8.70 380 12/27/2001 00:00:00 9:8 11:80 1.03 8.70 381 12/27/2001 00:00:00 9:8 11:80 1.03 8.70 381 12/27/2001 00:00:00 9:8 11:80 1.03 8.70 381 12/27/2001 00:00:00 9:77 11:85 1.04 8.73 381 12/27/2001 10:00:00 9:77 11:85 1.04 8.73 381 12/27/2001 10:00:00 9:77 11:89 1.03 8.70 381 12/27/2001 10:00:00 9:77 11:79 1.04 8.73 381 12/27/2001 10:00:00 9:77 11:79 1.02 8.75 391 12/27/2001 10:00:00 9:77 11:79 1.02 8.75 391 12/27/2001 10:00:00 9:77 11:79 1.02 8.75 3	352	12/26/2001	3:00:00	10.03	11.93	1.06	8.97
355 12/26/2001 6:00:00 9.99 11:93 1.06 8.93 356 12/26/2001 7:00:00 10:01 11:83 1.06 8.97 358 12/26/2001 9:00:00 10:01 11:89 1.06 8.94 359 12/26/2001 10:00:00 9.95 11:87 1.06 8.86 361 12/26/2001 11:00:00 9.95 11:87 1.06 8.86 361 12/26/2001 12:00:00 9.88 11:81 1.05 8.84 362 12/26/2001 12:00:00 9.85 11:85 1.05 8.84 362 12/26/2001 13:00:00 9.85 11:85 1.05 8.84 362 12/26/2001 15:00:00 9.85 11:85 1.05 8.78 364 12/26/2001 15:00:00 9.81 11:86 1.05 8.76 365 12/26/2001 15:00:00 9.81 11:86 1.05 8.76 365 12/26/2001 15:00:00 9.8 11:87 1.05 8.75 366 12/26/2001 18:00:00 9.78 11:86 1.05 8.73 368 12/26/2001 18:00:00 9.78 11:86 1.05 8.73 368 12/26/2001 18:00:00 9.78 11:80 1.05 8.73 368 12/26/2001 18:00:00 9.79 11:81 1.05 8.73 368 12/26/2001 18:00:00 9.79 11:81 1.05 8.74 369 12/26/2001 21:00:00 9.8 11:84 1.05 8.75 371 12/26/2001 21:00:00 9.8 11:88 1.04 8.77 372 12/26/2001 21:00:00 9.8 11:88 1.04 8.77 372 12/26/2001 22:00:00 9.8 11:88 1.04 8.77 373 12/27/2001 20:00:00 9.8 11:81 1.04 8.76 375 12/27/2001 20:00:00 9.8 11:81 1.04 8.76 375 12/27/2001 3:00:00 9.8 11:83 1.04 8.76 375 12/27/2001 3:00:00 9.8 11:83 1.04 8.76 375 12/27/2001 3:00:00 9.8 11:83 1.04 8.76 375 12/27/2001 3:00:00 9.8 11:83 1.04 8.76 375 12/27/2001 3:00:00 9.8 11:83 1.04 8.76 375 12/27/2001 3:00:00 9.8 11:83 1.04 8.76 375 12/27/2001 3:00:00 9.8 11:83 1.04 8.76 375 12/27/2001 3:00:00 9.8 11:83 1.04 8.76 375 12/27/2001 3:00:00 9.8 11:83 1.04 8.76 375 12/27/2001 3:00:00 9.8 11:81 1.03 8.78 381 12/27/2001 3:00:00 9.77 11:79 1.04 8.76 381 12/27/2001 3:00:00 9.77 11:79 1.03 8.76 381 12/	353	12/26/2001	4:00:00	9.99	11.85	1.06	8.93
356 12/26/2001 7:00:00 10.01 11.83 1.06 8.95 357 12/26/2001 8:00:00 10.03 11.96 1.06 8.94 359 12/26/2001 0:00:00 9.95 11.87 1.06 8.89 360 12/26/2001 11:00:00 9.92 12.01 1.06 8.86 361 12/26/2001 12:00:00 9.89 11.81 1.05 8.84 362 12/26/2001 13:00:00 9.85 11.85 1.05 8.84 362 12/26/2001 15:00:00 9.89 11.81 1.05 8.84 362 12/26/2001 15:00:00 9.88 11.85 1.05 8.80 363 12/26/2001 15:00:00 9.83 11.85 1.05 8.76 365 12/26/2001 15:00:00 9.81 11.86 1.05 8.76 365 12/26/2001 15:00:00 9.81 11.86 1.05 8.75 366 12/26/2001 16:00:00 9.78 11.83 1.05 8.73 367 12/26/2001 16:00:00 9.78 11.83 1.05 8.73 368 12/26/2001 19:00:00 9.78 11.81 1.05 8.73 368 12/26/2001 19:00:00 9.79 11.81 1.05 8.73 370 12/26/2001 21:00:00 9.8 11.84 1.05 8.75 371 12/26/2001 21:00:00 9.8 11.88 1.05 8.75 371 12/26/2001 22:00:00 9.8 11.88 1.05 8.75 371 12/26/2001 22:00:00 9.8 11.88 1.05 8.75 371 12/26/2001 23:00:00 9.82 11.81 1.04 8.77 372 12/26/2001 23:00:00 9.82 11.81 1.04 8.77 373 12/27/2001 20:00:00 9.8 11.88 1.05 8.75 375 12/27/2001 20:00:00 9.8 11.89 1.04 8.76 375 12/27/2001 20:00:00 9.8 11.80 1.04 8.76 375 12/27/2001 20:00:00 9.8 11.80 1.04 8.76 375 12/27/2001 20:00:00 9.8 11.80 1.04 8.76 375 12/27/2001 20:00:00 9.8 11.80 1.04 8.76 375 12/27/2001 20:00:00 9.8 11.80 1.04 8.76 375 12/27/2001 3:00:00 9.8 11.80 1.04 8.76 375 12/27/2001 3:00:00 9.8 11.80 1.04 8.76 375 12/27/2001 3:00:00 9.8 11.80 1.04 8.76 375 12/27/2001 3:00:00 9.8 11.80 1.03 8.76 381 12/27/2001 3:00:00 9.77 11.79 1.04 8.73 381 12/27/2001 3:00:00 9.77 11.79 1.03 8.73 381 12/27/2001 10:00:00 9.77 11.79 1.03 8.75 3	354	12/26/2001	5:00:00	9.99	11.84	1.06	8.93
357 12/26/2001 8:00:00 10:03 11:96 1.06 8.97	355	12/26/2001	6:00:00	9.99	11.93	1.06	8.93
358 12/26/2001 10:00:00 9.95 11.87 1.06 8.89 360 12/26/2001 11:00:00 9.95 11.87 1.06 8.86 361 12/26/2001 11:00:00 9.92 12.01 1.06 8.86 361 12/26/2001 12:00:00 9.89 11.81 1.05 8.84 362 12/26/2001 14:00:00 9.85 11.85 1.05 8.80 363 12/26/2001 14:00:00 9.83 11.83 1.05 8.78 364 12/26/2001 15:00:00 9.81 11.86 1.05 8.76 365 12/26/2001 17:00:00 9.81 11.86 1.05 8.75 365 12/26/2001 17:00:00 9.78 11.86 1.05 8.73 367 12/26/2001 18:00:00 9.78 11.83 1.05 8.73 367 12/26/2001 18:00:00 9.78 11.83 1.05 8.73 368 12/26/2001 19:00:00 9.79 11.81 1.05 8.74 369 12/26/2001 20:00:00 9.8 11.84 1.05 8.75 370 12/26/2001 20:00:00 9.8 11.88 1.05 8.75 371 12/26/2001 22:00:00 9.8 11.88 1.04 8.77 372 12/26/2001 22:00:00 9.81 11.88 1.04 8.77 372 12/26/2001 22:00:00 9.81 11.88 1.04 8.76 373 12/27/2001 0:00:00 9.81 11.89 1.04 8.76 373 12/27/2001 1:00:00 9.8 11.81 1.04 8.76 373 12/27/2001 1:00:00 9.8 11.83 1.04 8.76 375 12/27/2001 3:00:00 9.8 11.83 1.04 8.76 375 12/27/2001 3:00:00 9.8 11.83 1.04 8.76 375 12/27/2001 3:00:00 9.8 11.83 1.04 8.76 375 12/27/2001 3:00:00 9.8 11.83 1.04 8.76 375 12/27/2001 3:00:00 9.8 11.83 1.04 8.76 375 12/27/2001 3:00:00 9.8 11.83 1.04 8.76 375 12/27/2001 3:00:00 9.8 11.89 1.03 8.73 380 12/27/2001 3:00:00 9.77 11.85 1.04 8.73 381 12/27/2001 3:00:00 9.77 11.79 1.04 8.73 381 12/27/2001 3:00:00 9.77 11.79 1.03 8.78 381 12/27/2001 13:00:00 9.76 11.79 1.03 8.76 381 12/27/2001 13:00:00 9.76 11.79 1.03 8.76 381 12/27/2001 13:00:00 9.76 11.79 1.03 8.75 391 12/27/2001 13:00:00 9.77 11.79 1.02 8.75 391 12/27/2001 13:00:00 9.77 11.79 1.02 8.75 391	356	12/26/2001	7:00:00	10.01	11.83	1.06	8.95
359 12/26/2001 11:00:00 9.95 11.87 1.06 8.89 360 12/26/2001 11:00:00 9.92 12:01 1.06 8.86 361 12/26/2001 12:00:00 9.89 11.81 1.05 8.84 362 12/26/2001 13:00:00 9.85 11.85 1.05 8.80 363 12/26/2001 15:00:00 9.83 11.83 1.05 8.76 364 12/26/2001 15:00:00 9.81 11.86 1.05 8.76 365 12/26/2001 15:00:00 9.8 11.87 1.05 8.75 366 12/26/2001 17:00:00 9.76 11.86 1.05 8.73 367 12/26/2001 18:00:00 9.78 11.83 1.05 8.73 368 12/26/2001 19:00:00 9.78 11.81 1.05 8.73 368 12/26/2001 19:00:00 9.79 11.81 1.05 8.74 369 12/26/2001 22:00:00 9.8 11.84 1.05 8.75 370 12/26/2001 22:00:00 9.8 11.88 1.05 8.75 371 12/26/2001 22:00:00 9.81 11.88 1.05 8.75 371 12/26/2001 22:00:00 9.81 11.88 1.05 8.75 373 12/27/2001 1:00:00 9.82 11.81 1.04 8.76 373 12/27/2001 1:00:00 9.8 11.81 1.04 8.76 375 12/27/2001 1:00:00 9.8 11.89 1.04 8.76 375 12/27/2001 1:00:00 9.8 11.83 1.04 8.76 375 12/27/2001 1:00:00 9.8 11.83 1.04 8.76 375 12/27/2001 1:00:00 9.8 11.83 1.04 8.76 375 12/27/2001 3:00:00 9.77 11.79 1.04 8.73 379 12/27/2001 8:00:00 9.77 11.85 1.04 8.73 379 12/27/2001 8:00:00 9.77 11.85 1.04 8.73 381 12/27/2001 8:00:00 9.77 11.85 1.04 8.73 381 12/27/2001 8:00:00 9.77 11.85 1.04 8.73 381 12/27/2001 8:00:00 9.77 11.89 1.03 8.78 382 12/27/2001 8:00:00 9.77 11.89 1.03 8.78 382 12/27/2001 8:00:00 9.77 11.79 1.03 8.76 385 12/27/2001 8:00:00 9.77 11.89 1.03 8.76 385 12/27/2001 1:00:00 9.70 11.81 1.03 8.76 385 12/27/2001 1:00:00 9.70 11.70 1.03 8.70 385 12/27/2001 1:00:00 9.70 11.70 1.03 8.70 385 12/27/2001 15:00:00 9.77 17.70 1.02 8.75 392 12/27/2001 15:00:00 9.77 17.70 1.02 8.75 392	357	12/26/2001	8:00:00	10.03	11.96	1.06	8.97
360 12/26/2001 11:00:00 9.92 12:01 1.06 8.86 361 12/26/2001 12:00:00 9.89 11.81 1.05 8.84 362 12/26/2001 13:00:00 9.65 11.85 1.05 8.80 363 12/26/2001 14:00:00 9.83 11.83 1.05 8.78 364 12/26/2001 15:00:00 9.81 11.86 1.05 8.76 365 12/26/2001 16:00:00 9.8 11.87 1.05 8.75 366 12/26/2001 16:00:00 9.8 11.86 1.05 8.73 367 12/26/2001 18:00:00 9.78 11.86 1.05 8.73 367 12/26/2001 19:00:00 9.78 11.83 1.05 8.73 367 12/26/2001 19:00:00 9.78 11.84 1.05 8.74 369 12/26/2001 20:00:00 9.8 11.84 1.05 8.75 370 12/26/2001 21:00:00 9.8 11.88 1.05 8.75 370 12/26/2001 22:00:00 9.8 11.88 1.05 8.75 371 12/26/2001 22:00:00 9.81 11.88 1.04 8.77 372 12/26/2001 23:00:00 9.82 11.81 1.04 8.78 373 12/27/2001 2:00:00 9.81 11.89 1.04 8.77 374 12/27/2001 2:00:00 9.8 11.83 1.04 8.76 375 12/27/2001 2:00:00 9.8 11.83 1.04 8.76 375 12/27/2001 2:00:00 9.8 11.83 1.04 8.76 376 12/27/2001 3:00:00 9.8 11.83 1.04 8.76 376 12/27/2001 5:00:00 9.78 11.83 1.04 8.76 376 12/27/2001 5:00:00 9.78 11.83 1.04 8.76 377 12/27/2001 5:00:00 9.78 11.83 1.04 8.76 378 12/27/2001 5:00:00 9.77 11.85 1.04 8.73 381 12/27/2001 6:00:00 9.77 11.85 1.04 8.73 381 12/27/2001 8:00:00 9.78 11.81 1.03 8.78 381 12/27/2001 8:00:00 9.76 11.79 1.04 8.73 381 12/27/2001 8:00:00 9.76 11.79 1.03 8.76 383 12/27/2001 15:00:00 9.76 11.79 1.03 8.76 383 12/27/2001 15:00:00 9.76 11.79 1.03 8.76 383 12/27/2001 15:00:00 9.76 11.79 1.03 8.76 385 12/27/2001 15:00:00 9.76 11.79 1.03 8.76 385 12/27/2001 15:00:00 9.76 11.79 1.03 8.77 388 12/27/2001 15:00:00 9.76 11.79 1.02 8.75 392 12/27/2001 15:00:00 9.77 11.77 1.02 8.75 3	358	12/26/2001	9:00:00	10	. 11.89	1.06	8.94
361 12/26/2001 12:00:00 9.89 11.81 1.05 8.84 362 12/26/2001 13:00:00 9.85 11.85 1.05 8.80 363 12/26/2001 14:00:00 9.83 11.83 1.05 8.78 364 12/26/2001 15:00:00 9.81 11.86 1.05 8.76 365 12/26/2001 16:00:00 9.8 11.87 1.05 8.75 366 12/26/2001 17:00:00 9.78 11.86 1.05 8.73 367 12/26/2001 18:00:00 9.78 11.83 1.05 8.73 368 12/26/2001 19:00:00 9.78 11.81 1.05 8.74 369 12/26/2001 19:00:00 9.79 11.81 1.05 8.75 370 12/26/2001 21:00:00 9.8 11.88 1.05 8.75 371 12/26/2001 22:00:00 9.81 11.88 1.05 8.75 371 12/26/2001 22:00:00 9.81 11.88 1.04 8.77 372 12/26/2001 23:00:00 9.82 11.81 1.04 8.78 373 12/27/2001 1:00:00 9.8 11.95 1.04 8.76 374 12/27/2001 1:00:00 9.8 11.83 1.04 8.76 375 12/27/2001 2:00:00 9.8 11.83 1.04 8.76 376 12/27/2001 2:00:00 9.8 11.83 1.04 8.76 377 12/27/2001 5:00:00 9.77 11.79 1.04 8.73 380 12/27/2001 5:00:00 9.77 11.79 1.04 8.73 381 12/27/2001 5:00:00 9.77 11.85 1.04 8.73 382 12/27/2001 8:00:00 9.81 11.81 1.03 8.78 383 12/27/2001 1:00:00 9.8 11.81 1.03 8.78 384 12/27/2001 8:00:00 9.77 11.79 1.04 8.73 385 12/27/2001 1:00:00 9.77 11.79 1.04 8.73 386 12/27/2001 1:00:00 9.79 11.89 1.03 8.70 387 388 12/27/2001 1:00:00 9.79 11.89 1.03 8.70 388 12/27/2001 1:00:00 9.77 11.79 1.04 8.73 389 12/27/2001 1:00:00 9.77 11.79 1.02 8.75 390 12/27/2001 1:00:00 9.77 11.79 1.02 8.75 391 12/27/2001 1:00:00 9.77 11.79 1.03 8.73 392 12/27/2001 1:00:00 9.79 11.89 1.03 8.70 393 12/27/2001 1:00:00 9.79 11.70 1.02 8.75 394 12/27/2001 1:00:00 9.79 11.70 1.02 8.75 395 12/27/2001 1:00:00 9.79 11.70 1.02 8	359	12/26/2001	10:00:00	9.95	11.87	1.06	8.89
362 12/26/2001 13:00:00 9.85 11.85 1.05 8.80 363 12/26/2001 15:00:00 9.81 11.86 1.05 8.76 364 12/26/2001 15:00:00 9.81 11.86 1.05 8.76 365 12/26/2001 16:00:00 9.8 11.87 1.05 8.75 366 12/26/2001 16:00:00 9.78 11.86 1.05 8.73 367 12/26/2001 19:00:00 9.78 11.83 1.05 8.73 368 12/26/2001 19:00:00 9.78 11.83 1.05 8.73 368 12/26/2001 19:00:00 9.79 11.81 1.05 8.74 369 12/26/2001 20:00:00 9.8 11.84 1.05 8.75 370 12/26/2001 21:00:00 9.8 11.88 1.05 8.75 371 12/26/2001 22:00:00 9.81 11.88 1.05 8.75 371 12/26/2001 22:00:00 9.81 11.88 1.04 8.77 372 12/26/2001 23:00:00 9.82 11.81 1.04 8.78 373 12/27/2001 0:00:00 9.8 11.95 1.04 8.76 375 12/27/2001 2:00:00 9.8 11.83 1.04 8.76 375 12/27/2001 2:00:00 9.8 11.83 1.04 8.76 375 12/27/2001 3:00:00 9.8 11.83 1.04 8.76 376 12/27/2001 3:00:00 9.8 11.83 1.04 8.76 377 12/27/2001 5:00:00 9.77 11.79 1.04 8.73 380 12/27/2001 5:00:00 9.77 11.85 1.04 8.78 380 12/27/2001 6:00:00 9.81 11.8 1.03 8.78 381 12/27/2001 6:00:00 9.81 11.8 1.03 8.78 381 12/27/2001 1:00:00 9.8 11.81 1.03 8.78 381 12/27/2001 1:00:00 9.8 11.81 1.03 8.78 381 12/27/2001 1:00:00 9.77 11.79 1.04 8.73 381 12/27/2001 1:00:00 9.77 11.79 1.03 8.70 381 12/27/2001 1:00:00 9.77 11.79 1.03 8.70 381 12/27/2001 1:00:00 9.77 11.89 1.03 8.70 381 12/27/2001 1:00:00 9.77 11.89 1.03 8.70 381 12/27/2001 1:00:00 9.77 11.79 1.03 8.70 381 12/27/2001 1:00:00 9.77 11.79 1.03 8.70 381 12/27/2001 1:00:00 9.77 11.79 1.03 8.73 381 12/27/2001 1:00:00 9.77 11.79 1.03 8.73 381 12/27/2001 1:00:00 9.77 11.79 1.02 8.75 391 12/27/2001 1:00:00 9.77 11.79 1.02 8.75 391 12/27/2	360	12/26/2001	11:00:00	9.92	12.01	1.06	8.86
362 12/26/2001 13:00:00 9.85 11.85 1.05 8.80 363 12/26/2001 15:00:00 9.81 11.86 1.05 8.76 364 12/26/2001 15:00:00 9.81 11.86 1.05 8.76 365 12/26/2001 16:00:00 9.8 11.87 1.05 8.75 366 12/26/2001 16:00:00 9.78 11.86 1.05 8.73 367 12/26/2001 19:00:00 9.78 11.83 1.05 8.73 368 12/26/2001 19:00:00 9.78 11.83 1.05 8.73 368 12/26/2001 19:00:00 9.79 11.81 1.05 8.74 369 12/26/2001 20:00:00 9.8 11.84 1.05 8.75 370 12/26/2001 21:00:00 9.8 11.88 1.05 8.75 371 12/26/2001 22:00:00 9.81 11.88 1.05 8.75 371 12/26/2001 22:00:00 9.81 11.88 1.04 8.77 372 12/26/2001 23:00:00 9.82 11.81 1.04 8.78 373 12/27/2001 0:00:00 9.8 11.95 1.04 8.76 375 12/27/2001 2:00:00 9.8 11.83 1.04 8.76 375 12/27/2001 2:00:00 9.8 11.83 1.04 8.76 375 12/27/2001 3:00:00 9.8 11.83 1.04 8.76 376 12/27/2001 3:00:00 9.8 11.83 1.04 8.76 377 12/27/2001 5:00:00 9.77 11.79 1.04 8.73 380 12/27/2001 5:00:00 9.77 11.85 1.04 8.78 380 12/27/2001 6:00:00 9.81 11.8 1.03 8.78 381 12/27/2001 6:00:00 9.81 11.8 1.03 8.78 381 12/27/2001 1:00:00 9.8 11.81 1.03 8.78 381 12/27/2001 1:00:00 9.8 11.81 1.03 8.78 381 12/27/2001 1:00:00 9.77 11.79 1.04 8.73 381 12/27/2001 1:00:00 9.77 11.79 1.03 8.70 381 12/27/2001 1:00:00 9.77 11.79 1.03 8.70 381 12/27/2001 1:00:00 9.77 11.89 1.03 8.70 381 12/27/2001 1:00:00 9.77 11.89 1.03 8.70 381 12/27/2001 1:00:00 9.77 11.79 1.03 8.70 381 12/27/2001 1:00:00 9.77 11.79 1.03 8.70 381 12/27/2001 1:00:00 9.77 11.79 1.03 8.73 381 12/27/2001 1:00:00 9.77 11.79 1.03 8.73 381 12/27/2001 1:00:00 9.77 11.79 1.02 8.75 391 12/27/2001 1:00:00 9.77 11.79 1.02 8.75 391 12/27/2	361	12/26/2001	12:00:00	9.89	11.81	1.05	8.84
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365 12/26/2001 16:00:00 9.8 11.87 1.05 8.75 366 12/26/2001 17:00:00 9.78 11.86 1.05 8.73 367 12/26/2001 18:00:00 9.78 11.83 1.05 8.73 368 12/26/2001 19:00:00 9.79 11.81 1.05 8.74 369 12/26/2001 20:00:00 9.8 11.84 1.05 8.75 370 12/26/2001 20:00:00 9.8 11.86 1.05 8.75 371 12/26/2001 20:00:00 9.81 11.86 1.05 8.75 371 12/26/2001 20:00:00 9.81 11.86 1.05 8.75 371 12/26/2001 20:00:00 9.82 11.81 1.04 8.77 372 12/26/2001 20:00:00 9.82 11.81 1.04 8.78 373 12/27/2001 0:00:00 9.81 11.95 1.04 8.77 374 12/27/2001 0:00:00 9.8 11.96 1.04 8.76 375 12/27/2001 2:00:00 9.8 11.83 1.04 8.76 375 12/27/2001 2:00:00 9.8 11.83 1.04 8.76 376 12/27/2001 4:00:00 9.78 11.83 1.04 8.74 378 12/27/2001 4:00:00 9.77 11.79 1.04 8.73 379 12/27/2001 6:00:00 9.77 11.85 1.04 8.73 380 12/27/2001 6:00:00 9.81 11.81 1.03 8.78 381 12/27/2001 6:00:00 9.81 11.81 1.03 8.78 381 12/27/2001 6:00:00 9.77 11.85 1.04 8.73 382 12/27/2001 6:00:00 9.81 11.81 1.03 8.78 381 12/27/2001 6:00:00 9.81 11.81 1.03 8.78 382 12/27/2001 1:00:00 9.83 11.89 1.03 8.76 383 12/27/2001 1:00:00 9.76 11.79 1.03 8.76 385 12/27/2001 1:00:00 9.77 11.79 1.03 8.76 386 12/27/2001 1:00:00 9.77 11.79 1.03 8.76 386 12/27/2001 1:00:00 9.77 11.79 1.03 8.76 387 12/27/2001 1:00:00 9.77 11.79 1.03 8.76 387 12/27/2001 1:00:00 9.77 11.79 1.03 8.76 387 12/27/2001 1:00:00 9.77 11.79 1.03 8.76 387 12/27/2001 1:00:00 9.77 11.79 1.02 8.75 391 12/27/2001 1:00:00 9.77 11.79 1.02 8.75 391 12/27/2001 1:00:00 9.77 11.79 1.02 8.75 391 12/27/2001 1:00:00 9.77 11.79 1.02 8.75 391 12/27/2001 1:00:00 9.77 11.79 1.02 8.75 392 12/2	363	12/26/2001	14:00:00		11.83	1.05	8.78
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368 12/26/2001 19:00:00 9.79 11.81 1.05 8.74 369 12/26/2001 20:00:00 9.8 11.84 1.05 8.75 370 12/26/2001 20:00:00 9.8 11.88 1.05 8.75 371 12/26/2001 20:00:00 9.81 11.88 1.04 8.77 372 12/26/2001 20:00:00 9.81 11.95 1.04 8.76 373 12/27/2001 1:00:00 9.8 11.96 1.04 8.76 375 12/27/2001 2:00:00 9.8 11.96 1.04 8.76 375 12/27/2001 3:00:00 9.8 11.83 1.04 8.76 376 12/27/2001 3:00:00 9.78 11.83 1.04 8.76 377 12/27/2001 5:00:00 9.77 11.79 1.04 8.73 379 12/27/2001 5:00:00 9.77 11.85 1.04 8.73 380	366	12/26/2001	17:00:00	9.78	11.86	1.05	8.73
369 12/26/2001 20:00:00 9.8 11.84 1.05 8.75 370 12/26/2001 21:00:00 9.8 11.88 1.05 8.75 371 12/26/2001 22:00:00 9.81 11.88 1.04 8.77 372 12/26/2001 23:00:00 9.82 11.81 1.04 8.78 373 12/27/2001 0:00:00 9.81 11.95 1.04 8.76 374 12/27/2001 1:00:00 9.8 11.96 1.04 8.76 375 12/27/2001 2:00:00 9.8 11.83 1.04 8.76 376 12/27/2001 3:00:00 9.8 11.83 1.04 8.73 377 12/27/2001 5:00:00 9.77 11.83 1.04 8.73 379 12/27/2001 5:00:00 9.77 11.85 1.04 8.73 380 12/27/2001 6:00:00 9.77 11.85 1.04 8.78 381 1	367	12/26/2001	18:00:00	9.78	11.83	1.05	8.73
370 12/26/2001 21:00:00 9.8 11.88 1.05 8.75 371 12/26/2001 22:00:00 9.81 11.88 1.04 8.77 372 12/26/2001 23:00:00 9.82 11.81 1.04 8.78 373 12/27/2001 0:00:00 9.81 11.95 1.04 8.76 374 12/27/2001 1:00:00 9.8 11.96 1.04 8.76 375 12/27/2001 2:00:00 9.8 11.83 1.04 8.76 376 12/27/2001 3:00:00 9.8 11.83 1.04 8.76 377 12/27/2001 5:00:00 9.78 11.83 1.04 8.74 378 12/27/2001 5:00:00 9.77 11.79 1.04 8.73 380 12/27/2001 5:00:00 9.77 11.85 1.04 8.73 381 12/27/2001 8:00:00 9.81 11.81 1.03 8.78 382 1	368	12/26/2001	19:00:00	9.79		1.05	
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371 12/26/2001 22:00:00 9.81 11.88 1.04 8.77 372 12/26/2001 23:00:00 9.82 11.81 1.04 8.78 373 12/27/2001 0:00:00 9.81 11.95 1.04 8.76 374 12/27/2001 1:00:00 9.8 11.96 1.04 8.76 375 12/27/2001 2:00:00 9.8 11.83 1.04 8.76 376 12/27/2001 3:00:00 9.8 11.83 1.04 8.76 377 12/27/2001 5:00:00 9.78 11.83 1.04 8.74 378 12/27/2001 5:00:00 9.77 11.79 1.04 8.73 379 12/27/2001 6:00:00 9.77 11.85 1.04 8.73 380 12/27/2001 8:00:00 9.81 11.81 1.03 8.78 381 12/27/2001 8:00:00 9.81 11.81 1.03 8.78 382 1	370	12/26/2001	21:00:00	9.8	11.88		
372 12/26/2001 23:00:00 9.82 11.81 1.04 8.78 373 12/27/2001 0:00:00 9.81 11.95 1.04 8.77 374 12/27/2001 1:00:00 9.8 11.96 1.04 8.76 375 12/27/2001 2:00:00 9.8 11.83 1.04 8.76 377 12/27/2001 3:00:00 9.78 11.83 1.04 8.76 377 12/27/2001 4:00:00 9.78 11.83 1.04 8.73 378 12/27/2001 5:00:00 9.77 11.79 1.04 8.73 379 12/27/2001 6:00:00 9.77 11.85 1.04 8.73 380 12/27/2001 8:00:00 9.81 11.81 1.03 8.78 381 12/27/2001 8:00:00 9.81 11.81 1.03 8.70 382 12/27/2001 10:00:00 9.8 11.81 1.03 8.70 384 1	371	12/26/2001	22:00:00			1.04	
374 12/27/2001 1:00:00 9.8 11.96 1.04 8.76 375 12/27/2001 2:00:00 9.8 11.83 1.04 8.76 376 12/27/2001 3:00:00 9.8 11.78 1.04 8.76 377 12/27/2001 4:00:00 9.78 11.83 1.04 8.74 378 12/27/2001 5:00:00 9.77 11.79 1.04 8.73 379 12/27/2001 6:00:00 9.77 11.85 1.04 8.73 380 12/27/2001 7:00:00 9.81 11.8 1.03 8.78 381 12/27/2001 8:00:00 9.81 11.81 1.03 8.78 382 12/27/2001 9:00:00 9.83 11.89 1.03 8.76 383 12/27/2001 10:00:00 9.79 11.89 1.03 8.76 385 12/27/2001 11:00:00 9.79 11.89 1.03 8.73 386 12	372	12/26/2001	23:00:00	9.82		1.04	8.78
375 12/27/2001 2:00:00 9.8 11.83 1.04 8.76 376 12/27/2001 3:00:00 9.8 11.78 1.04 8.76 377 12/27/2001 4:00:00 9.78 11.83 1.04 8.74 378 12/27/2001 5:00:00 9.77 11.79 1.04 8.73 379 12/27/2001 6:00:00 9.77 11.85 1.04 8.73 380 12/27/2001 7:00:00 9.81 11.8 1.03 8.78 381 12/27/2001 8:00:00 9.81 11.81 1.03 8.78 382 12/27/2001 9:00:00 9.83 11.89 1.03 8.78 383 12/27/2001 10:00:00 9.8 11.81 1.03 8.76 384 12/27/2001 11:00:00 9.79 11.89 1.03 8.76 385 12/27/2001 12:00:00 9.76 11.79 1.03 8.73 386 1	373	12/27/2001	0:00:00	9.81	11.95	1.04	8.77
376 12/27/2001 3:00:00 9.8 11.78 1.04 8.76 377 12/27/2001 4:00:00 9.78 11.83 1.04 8.74 378 12/27/2001 5:00:00 9.77 11.79 1.04 8.73 379 12/27/2001 6:00:00 9.77 11.85 1.04 8.73 380 12/27/2001 7:00:00 9.81 11.8 1.03 8.78 381 12/27/2001 8:00:00 9.81 11.81 1.03 8.78 382 12/27/2001 9:00:00 9.83 11.89 1.03 8.78 383 12/27/2001 10:00:00 9.8 11.81 1.03 8.76 384 12/27/2001 11:00:00 9.79 11.89 1.03 8.76 385 12/27/2001 12:00:00 9.76 11.79 1.03 8.73 386 12/27/2001 13:00:00 9.73 11.97 1.03 8.71 387 <td< td=""><td>374</td><td>12/27/2001</td><td>1:00:00</td><td>. 9.8</td><td>11.96</td><td>1.04</td><td>8.76</td></td<>	374	12/27/2001	1:00:00	. 9.8	11.96	1.04	8.76
377 12/27/2001 4:00:00 9.78 11.83 1.04 8.74 378 12/27/2001 5:00:00 9.77 11.79 1.04 8.73 379 12/27/2001 6:00:00 9.77 11.85 1.04 8.73 380 12/27/2001 7:00:00 9.81 11.8 1.03 8.78 381 12/27/2001 8:00:00 9.81 11.81 1.03 8.78 382 12/27/2001 9:00:00 9.83 11.89 1.03 8.76 383 12/27/2001 10:00:00 9.8 11.81 1.03 8.77 384 12/27/2001 11:00:00 9.79 11.89 1.03 8.76 385 12/27/2001 12:00:00 9.76 11.79 1.03 8.73 386 12/27/2001 13:00:00 9.73 11.97 1.03 8.71 387 12/27/2001 14:00:00 9.74 11.81 1.03 8.71 388 <	375	12/27/2001	2:00:00	9.8	11.83	1.04	8.76
378 12/27/2001 5:00:00 9.77 11.79 1.04 8.73 379 12/27/2001 6:00:00 9.77 11.85 1.04 8.73 380 12/27/2001 7:00:00 9.81 11.8 1.03 8.78 381 12/27/2001 8:00:00 9.81 11.81 1.03 8.78 382 12/27/2001 9:00:00 9.83 11.89 1.03 8.78 383 12/27/2001 10:00:00 9.8 11.81 1.03 8.77 384 12/27/2001 11:00:00 9.79 11.89 1.03 8.76 385 12/27/2001 12:00:00 9.76 11.79 1.03 8.73 386 12/27/2001 13:00:00 9.73 11.97 1.03 8.70 387 12/27/2001 14:00:00 9.74 11.81 1.03 8.71 388 12/27/2001 15:00:00 9.74 11.94 1.03 8.71 389	376	12/27/2001	3:00:00	9.8	11.78	1.04	8.76
379 12/27/2001 6:00:00 9.77 11.85 1.04 8.73 380 12/27/2001 7:00:00 9.81 11.8 1.03 8.78 381 12/27/2001 8:00:00 9.81 11.81 1.03 8.78 382 12/27/2001 9:00:00 9.83 11.89 1.03 8.80 383 12/27/2001 10:00:00 9.8 11.81 1.03 8.77 384 12/27/2001 11:00:00 9.79 11.89 1.03 8.76 385 12/27/2001 12:00:00 9.76 11.79 1.03 8.73 386 12/27/2001 13:00:00 9.74 11.81 1.03 8.71 387 12/27/2001 14:00:00 9.74 11.81 1.03 8.71 388 12/27/2001 15:00:00 9.74 11.94 1.03 8.71 389 12/27/2001 16:00:00 9.74 11.77 1.02 8.75 391	377	12/27/2001	4:00:00	9.78	11.83	1.04	8.74
380 12/27/2001 7:00:00 9.81 11.8 1.03 8.78 381 12/27/2001 8:00:00 9.81 11.81 1.03 8.78 382 12/27/2001 9:00:00 9.83 11.89 1.03 8.80 383 12/27/2001 10:00:00 9.8 11.81 1.03 8.77 384 12/27/2001 11:00:00 9.79 11.89 1.03 8.76 385 12/27/2001 12:00:00 9.76 11.79 1.03 8.73 386 12/27/2001 13:00:00 9.73 11.97 1.03 8.70 387 12/27/2001 14:00:00 9.74 11.81 1.03 8.71 388 12/27/2001 15:00:00 9.74 11.94 1.03 8.71 389 12/27/2001 16:00:00 9.74 11.77 1.02 8.75 391 12/27/2001 18:00:00 9.77 11.73 1.02 8.75 392	378	12/27/2001	5:00:00	9.77	11.79	1.04	8.73
381 12/27/2001 8:00:00 9.81 11.81 1.03 8.78 382 12/27/2001 9:00:00 9.83 11.89 1.03 8.80 383 12/27/2001 10:00:00 9.8 11.81 1.03 8.77 384 12/27/2001 11:00:00 9.79 11.89 1.03 8.76 385 12/27/2001 12:00:00 9.76 11.79 1.03 8.73 386 12/27/2001 13:00:00 9.73 11.97 1.03 8.70 387 12/27/2001 14:00:00 9.74 11.81 1.03 8.71 388 12/27/2001 15:00:00 9.74 11.94 1.03 8.71 389 12/27/2001 16:00:00 9.74 11.77 1.02 8.72 390 12/27/2001 18:00:00 9.77 11.79 1.02 8.75 391 12/27/2001 19:00:00 9.79 11.76 1.02 8.77 393	379	12/27/2001	6:00:00	9.77	11.85	1.04	8.73
382 12/27/2001 9:00:00 9.83 11.89 1.03 8.80 383 12/27/2001 10:00:00 9.8 11.81 1.03 8.77 384 12/27/2001 11:00:00 9.79 11.89 1.03 8.76 385 12/27/2001 12:00:00 9.76 11.79 1.03 8.73 386 12/27/2001 13:00:00 9.73 11.97 1.03 8.70 387 12/27/2001 14:00:00 9.74 11.81 1.03 8.71 388 12/27/2001 15:00:00 9.74 11.94 1.03 8.71 389 12/27/2001 16:00:00 9.74 11.77 1.02 8.72 390 12/27/2001 17:00:00 9.77 11.79 1.02 8.75 391 12/27/2001 18:00:00 9.77 11.73 1.02 8.75 392 12/27/2001 19:00:00 9.79 11.76 1.02 8.79 394	380	12/27/2001	7:00:00	9.81	11.8	1.03	8.78
383 12/27/2001 10:00:00 9.8 11.81 1.03 8.77 384 12/27/2001 11:00:00 9.79 11.89 1.03 8.76 385 12/27/2001 12:00:00 9.76 11.79 1.03 8.73 386 12/27/2001 13:00:00 9.73 11.97 1.03 8.70 387 12/27/2001 14:00:00 9.74 11.81 1.03 8.71 388 12/27/2001 15:00:00 9.74 11.94 1.03 8.71 389 12/27/2001 16:00:00 9.74 11.77 1.02 8.72 390 12/27/2001 17:00:00 9.77 11.79 1.02 8.75 391 12/27/2001 18:00:00 9.77 11.73 1.02 8.75 392 12/27/2001 19:00:00 9.79 11.76 1.02 8.79 394 12/27/2001 21:00:00 9.81 11.81 1.02 8.79 395	381	12/27/2001	8:00:00	9.81	11.81	1.03	8.78
384 12/27/2001 11:00:00 9.79 11.89 1.03 8.76 385 12/27/2001 12:00:00 9.76 11.79 1.03 8.73 386 12/27/2001 13:00:00 9.73 11.97 1.03 8.70 387 12/27/2001 14:00:00 9.74 11.81 1.03 8.71 388 12/27/2001 15:00:00 9.74 11.94 1.03 8.71 389 12/27/2001 16:00:00 9.74 11.77 1.02 8.72 390 12/27/2001 17:00:00 9.77 11.79 1.02 8.75 391 12/27/2001 18:00:00 9.77 11.73 1.02 8.75 392 12/27/2001 19:00:00 9.79 11.76 1.02 8.77 393 12/27/2001 20:00:00 9.81 11.81 1.02 8.79 394 12/27/2001 22:00:00 9.82 11.81 1.02 8.80 395	382	12/27/2001	9:00:00	9.83	11.89	1.03	8.80
385 12/27/2001 12:00:00 9.76 11.79 1.03 8.73 386 12/27/2001 13:00:00 9.73 11.97 1.03 8.70 387 12/27/2001 14:00:00 9.74 11.81 1.03 8.71 388 12/27/2001 15:00:00 9.74 11.94 1.03 8.71 389 12/27/2001 16:00:00 9.74 11.77 1.02 8.72 390 12/27/2001 17:00:00 9.77 11.79 1.02 8.75 391 12/27/2001 18:00:00 9.77 11.73 1.02 8.75 392 12/27/2001 19:00:00 9.79 11.76 1.02 8.77 393 12/27/2001 20:00:00 9.81 11.81 1.02 8.79 394 12/27/2001 21:00:00 9.82 11.81 1.02 8.80 395 12/27/2001 23:00:00 9.83 11.77 1.02 8.81 397 12/28/2001 0:00:00 9.85 11.81 1.02 8.83 <tr< td=""><td>383</td><td>12/27/2001</td><td>10:00:00</td><td>9.8</td><td>11.81</td><td>1.03</td><td>8.77</td></tr<>	383	12/27/2001	10:00:00	9.8	11.81	1.03	8.77
386 12/27/2001 13:00:00 9.73 11.97 1.03 8.70 387 12/27/2001 14:00:00 9.74 11.81 1.03 8.71 388 12/27/2001 15:00:00 9.74 11.94 1.03 8.71 389 12/27/2001 16:00:00 9.74 11.77 1.02 8.72 390 12/27/2001 17:00:00 9.77 11.79 1.02 8.75 391 12/27/2001 18:00:00 9.77 11.73 1.02 8.75 392 12/27/2001 19:00:00 9.79 11.76 1.02 8.77 393 12/27/2001 20:00:00 9.81 11.81 1.02 8.79 394 12/27/2001 21:00:00 9.82 11.81 1.02 8.80 395 12/27/2001 23:00:00 9.83 11.77 1.02 8.81 397 12/28/2001 0:00:00 9.85 11.81 1.02 8.83 398 12/28/2001 1:00:00 9.83 11.91 1.02 8.81 <td>384</td> <td>12/27/2001</td> <td>11:00:00</td> <td></td> <td></td> <td>1.03</td> <td>8.76</td>	384	12/27/2001	11:00:00			1.03	8.76
387 12/27/2001 14:00:00 9.74 11.81 1.03 8.71 388 12/27/2001 15:00:00 9.74 11.94 1.03 8.71 389 12/27/2001 16:00:00 9.74 11.77 1.02 8.72 390 12/27/2001 17:00:00 9.77 11.79 1.02 8.75 391 12/27/2001 18:00:00 9.77 11.73 1.02 8.75 392 12/27/2001 19:00:00 9.79 11.76 1.02 8.77 393 12/27/2001 20:00:00 9.81 11.81 1.02 8.79 394 12/27/2001 21:00:00 9.81 11.85 1.02 8.80 395 12/27/2001 22:00:00 9.82 11.81 1.02 8.81 396 12/27/2001 23:00:00 9.83 11.77 1.02 8.81 397 12/28/2001 0:00:00 9.85 11.81 1.02 8.83 398 12/28/2001 1:00:00 9.83 11.91 1.02 8.81 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
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389 12/27/2001 16:00:00 9.74 11.77 1.02 8.72 390 12/27/2001 17:00:00 9.77 11.79 1.02 8.75 391 12/27/2001 18:00:00 9.77 11.73 1.02 8.75 392 12/27/2001 19:00:00 9.79 11.76 1.02 8.77 393 12/27/2001 20:00:00 9.81 11.81 1.02 8.79 394 12/27/2001 21:00:00 9.81 11.85 1.02 8.79 395 12/27/2001 22:00:00 9.82 11.81 1.02 8.80 396 12/27/2001 23:00:00 9.83 11.77 1.02 8.81 397 12/28/2001 0:00:00 9.85 11.81 1.02 8.83 398 12/28/2001 1:00:00 9.83 11.91 1.02 8.81							
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399 12/28/2001 2:00:00 9.84 11.77 1.01 8.83			-				
	399	12/28/2001	2:00:00	9.84	11.77	1.01	8.83

400	12/28/2001	3:00:00	9.84	11.76	1.01	8.83
401	12/28/2001	4:00:00	9.81	11.77	1.01	8.80
402	12/28/2001	5:00:00	9.81	11.79	1.01	8.80
403	12/28/2001	6:00:00	9.82	11.75	1.01	8.81
404	12/28/2001	7:00:00	9.79	11.75	1.01	8.78
405	12/28/2001	8:00:00	9.81	11.85	1.01	8.80
406	12/28/2001	9:00:00	9.81	11.75	1.01	8.80
407	12/28/2001	10:00:00	9.77	11.85	1.01	8.76
408	12/28/2001	11:00:00	9.75	11.81	1.00	8.75
409	12/28/2001	12:00:00	9.7	11.83	1.00	8.70
410	12/28/2001	13:00:00	9.67	11.87	1.00	8.67
411	12/28/2001	14:00:00	9.65	11.72	1.00	8.65
412	12/28/2001	15:00:00	9.65	11.81	1.00	8.65
413	12/28/2001	16:00:00	9.64	11.89	1.00	8.64
414	12/28/2001	17:00:00	9.67	11.86	1.00	8.67
415	12/28/2001	18:00:00	9.71	11.81	1.00	
416	12/28/2001	19:00:00	9.73	11.75	1.00	
417	12/28/2001	20:00:00	9.77	11.74	0.99	
418	12/28/2001	21:00:00	9.77	11.77	0.99	
419	12/28/2001	22:00:00	9.78	11.7	0.99	
420	12/28/2001	23:00:00	9.77	11.92	0.99	
421	12/29/2001	0:00:00	9.78	11.8	0.99	
422	12/29/2001	1:00:00	9.78	11.86	0.99	
423	12/29/2001	2:00:00	9.81	11.94	0.99	
424	12/29/2001	3:00:00	9.8	11.68	0.99	
425	12/29/2001	4:00:00	9.81	11.8	0.99	· · · · · · · · · · · · · · · · · · ·
426	12/29/2001	5:00:00	9.78	11.75	0.99	
427	12/29/2001	6:00:00	9.79	11.91	0.98	I
428	12/29/2001	7:00:00	9.78	11.75	0.98	
429	12/29/2001	8:00:00	9.78	11.69	0.98	
430	12/29/2001	9:00:00	9.78		0.98	
431	12/29/2001	10:00:00	9.81	11.87	0.98	
432	12/29/2001	11:00:00	9.79	11.89	0.98	
433	12/29/2001	12:00:00	9.75	11.68	0.98	
434	12/29/2001	13:00:00	9.74	11.7	0.98	
435	12/29/2001	14:00:00	9.74		0.98	
436	12/29/2001	15:00:00	9.76		0.97	
437	12/29/2001	16:00:00	9.78		0.97	
438	12/29/2001	17:00:00	9.82		0.97	
439	12/29/2001	18:00:00	9.87	11.87	0.97	·
440	12/29/2001	19:00:00	9.9			
441	12/29/2001	20:00:00	9.94		0.97	
442	12/29/2001	21:00:00	9.95			
443	12/29/2001	22:00:00	9.96			
444	12/29/2001	23:00:00	9.97		0.97	
445	12/30/2001	0:00:00	9.97		0.96	
446	12/30/2001	1:00:00	9.98		0.96	
447	12/30/2001	2:00:00	10.01		0.96	·
448	12/30/2001	3:00:00	10.03			
449	12/30/2001	4:00:00	10.05			
450	12/30/2001	5:00:00	10.05			
451	12/30/2001	6:00:00	10.06	11.67	0.96	9.10

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463 12/30/2001 18:00:00 10.11 11.84 0.95 9.16 464 12/30/2001 19:00:00 10.12 11.64 0.94 9.18 465 12/30/2001 20:00:00 10.15 11.62 0.94 9.21 466 12/30/2001 22:00:00 10.15 11.69 0.94 9.21 467 12/30/2001 22:00:00 10.15 11.81 0.94 9.21 468 12/30/2001 23:00:00 10.17 11.87 0.94 9.23 469 12/31/2001 0:00:00 10.16 11.79 0.94 9.22 470 12/31/2001 1:00:00 10.16 11.73 0.94 9.22 471 12/31/2001 2:00:00 10.18 11.81 0.94 9.24 472 12/31/2001 3:00:00 10.22 11.68 0.94 9.28 473 12/31/2001 4:00:00 10.17 11.65 0.93 9.24 474 12/31/2001 6:00:00 10.17 11.65 0.93 9.24 475 12/31/2001 6:00:00 10.17 11.65 0.93 9.24 476 12/31/2001 6:00:00 10.18 11.75 0.93 9.25 477 12/31/2001 8:00:00 10.21 11.62 0.93 9.28 478 12/31/2001 8:00:00 10.23 11.55 0.93 9.28 478 12/31/2001 10:00:00 10.23 11.75 0.93 9.28 478 12/31/2001 10:00:00 10.23 11.75 0.93 9.28 478 12/31/2001 10:00:00 10.21 11.62 0.93 9.28 478 12/31/2001 10:00:00 10.21 11.62 0.93 9.28 478 12/31/2001 10:00:00 10.21 11.60 0.93 9.28 478 12/31/2001 10:00:00 10.23 11.75 0.93 9.30 480 12/31/2001 11:00:00 10.23 11.75 0.93 9.20 481 12/31/2001 11:00:00 10.21 11.61 0.99 9.20 482 12/31/2001 15:00:00 10.17 11.64 0.99 9.20 483 12/31/2001 15:00:00 10.17 11.66 0.99 9.20 486 12/31/2001 15:00:00 10.17 11.66 0.99 9.20 487 12/31/2001 15:00:00 10.17 11.66 0.99 9.20 488 12/31/2001 15:00:00 10.18 11.61 0.99 9.20 489 12/31/2001 15:00:00 10.19 11.61 0.99 9.20 490 12/31/2001 20:00:00 10.18 11.61 0.99 9.20 491 12/31/2001 20:00:00 10.19 11.61 0.99 9.20 492 12/31/2001 20:00:00 10.19 11.60 0.91 9.20 493 01	461	12/30/2001	16:00:00	10.09	11.75	0.95	9.14
464 12/30/2001 19:00:00 10:12 11:64 0.94 9:18	462	12/30/2001	17:00:00	10.08	11.66	0.95	9.13
465 12/30/2001 20:00:00 10.15 11.62 0.94 9.21 466 12/30/2001 21:00:00 10.15 11.69 0.94 9.21 467 12/30/2001 22:00:00 10.15 11.81 0.94 9.21 468 12/30/2001 23:00:00 10.17 11.87 0.94 9.23 469 12/31/2001 0:00:00 10.16 11.79 0.94 9.22 470 12/31/2001 1:00:00 10.16 11.73 0.94 9.22 471 12/31/2001 2:00:00 10.16 11.73 0.94 9.22 471 12/31/2001 3:00:00 10.16 11.73 0.94 9.22 471 12/31/2001 3:00:00 10.18 11.81 0.94 9.24 472 12/31/2001 3:00:00 10.22 11.68 0.94 9.28 473 12/31/2001 4:00:00 10.17 11.65 0.93 9.24 474 12/31/2001 5:00:00 10.17 11.65 0.93 9.24 475 12/31/2001 6:00:00 10.17 11.62 0.93 9.24 475 12/31/2001 6:00:00 10.19 11.62 0.93 9.25 476 12/31/2001 8:00:00 10.21 11.62 0.93 9.25 478 12/31/2001 8:00:00 10.21 11.62 0.93 9.25 478 12/31/2001 9:00:00 10.23 11.75 0.93 9.30 479 12/31/2001 10:00:00 10.23 11.75 0.93 9.30 479 12/31/2001 10:00:00 10.23 11.83 0.93 9.30 480 12/31/2001 11:00:00 10.23 11.80 0.93 9.24 481 12/31/2001 11:00:00 10.23 11.80 0.93 9.24 482 12/31/2001 11:00:00 10.23 11.80 0.93 9.24 482 12/31/2001 11:00:00 10.23 11.80 0.93 9.26 488 12/31/2001 11:00:00 10.17 11.64 0.93 9.24 482 12/31/2001 11:00:00 10.17 11.64 0.93 9.24 484 12/31/2001 15:00:00 10.15 11.76 0.93 9.22 488 12/31/2001 15:00:00 10.15 11.76 0.93 9.22 488 12/31/2001 15:00:00 10.15 11.76 0.93 9.22 489 12/31/2001 15:00:00 10.14 11.61 0.92 9.22 486 12/31/2001 15:00:00 10.12 11.63 0.92 9.20 486 12/31/2001 15:00:00 10.14 11.61 0.92 9.22 487 12/31/2001 15:00:00 10.11 11.61 0.92 9.22 487 12/31/2001 12:00:00 10.18 11.61 0.92 9.22 489 12/31/2001 12:00:00 10.18 11.61 0.92 9.22 489 12/31/2001 12:00:00 10.19 11.60 0.91 9.26 499 12/31/2001 20:00:00 10.19 11.60 0.91 9.26 499 12/31/2001 20:00:00 10.19 11.60 0.91 9.26 499 12/31/2001 20:00:00 10.19 11.60 0.91 9.28 499 12/31/2001 20:00:00 10.21 11.60 0.91 9.28 499 12/31/2001 20:00:00 10.21 11.60 0.91 9.28 499 12/31/2001 20:00:00 10.21 11.60 0.91 9.28 499 01/01/2002 0:00:00 10.21 11.60 0.91 9.28 499 01/01/2002 0:00:00 10.21 11.60 0.91 9.28 499 01/01/2002 0:00:00 10.21 11.59 0.91 9.30 500 01/01/2002 0:00:00 10.24 11.60 0.9	463	12/30/2001	18:00:00	10.11	11.84	0.95	9.16
466 12/30/2001 21:00:00 10.15 11.69 0.94 9.21 467 12/30/2001 23:00:00 10.15 11.81 0.94 9.21 468 12/30/2001 0:00:00 10.16 11.79 0.94 9.23 469 12/31/2001 1:00:00 10.16 11.79 0.94 9.22 470 12/31/2001 1:00:00 10.16 11.79 0.94 9.22 471 12/31/2001 2:00:00 10.18 11.81 0.94 9.24 472 12/31/2001 3:00:00 10.22 11.65 0.93 9.24 473 12/31/2001 4:00:00 10.17 11.65 0.93 9.24 474 12/31/2001 5:00:00 10.17 11.65 0.93 9.24 475 12/31/2001 6:00:00 10.17 11.79 0.93 9.24 476 12/31/2001 6:00:00 10.19 11.62 0.93 9.25 477 12/31/2001 8:00:00 10.21 11.62 0.93 9.25 478 12/31/2001 8:00:00 10.21 11.62 0.93 9.28 478 12/31/2001 10:00:00 10.23 11.75 0.93 9.30 479 12/31/2001 10:00:00 10.23 11.83 0.93 9.30 480 12/31/2001 11:00:00 10.22 11.81 0.93 9.27 481 12/31/2001 13:00:00 10.17 11.64 0.93 9.24 482 12/31/2001 13:00:00 10.17 11.64 0.93 9.24 483 12/31/2001 15:00:00 10.17 11.64 0.93 9.24 484 12/31/2001 15:00:00 10.17 11.63 0.92 9.20 485 12/31/2001 15:00:00 10.12 11.61 0.92 9.20 486 12/31/2001 15:00:00 10.12 11.63 0.92 9.20 487 12/31/2001 15:00:00 10.11 11.61 0.92 9.20 488 12/31/2001 15:00:00 10.11 11.61 0.92 9.20 489 12/31/2001 15:00:00 10.18 11.61 0.92 9.26 489 12/31/2001 15:00:00 10.18 11.61 0.92 9.26 489 12/31/2001 20:00:00 10.18 11.61 0.92 9.26 491 12/31/2001 20:00:00 10.19 11.61 0.92 9.26 492 12/31/2001 20:00:00 10.19 11.61 0.92 9.26 493 01/01/2002 0:00:00 10.19 11.65 0.91 9.26 494 01/01/2002 0:00:00 10.19 11.65 0.91 9.26 498 01/01/2002 0:00:00 10.21 11.59 0.91 9.26 499 01/01/2002 0:00:00 10.21 11.59 0.91 9.26 499 01/01/2	464	12/30/2001	19:00:00	10.12	11.64	0.94	9.18
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468 12/30/2001 23:00:00 10.17 11.87 0.94 9.23 469 12/31/2001 10:00:00 10.16 11.79 0.94 9.22 470 12/31/2001 1:00:00 10.16 11.73 0.94 9.22 471 12/31/2001 2:00:00 10.18 11.81 0.94 9.24 472 12/31/2001 3:00:00 10.22 11.68 0.94 9.28 473 12/31/2001 5:00:00 10.17 11.65 0.93 9.24 474 12/31/2001 6:00:00 10.17 11.79 0.93 9.24 475 12/31/2001 6:00:00 10.18 11.75 0.93 9.26 476 12/31/2001 7:00:00 10.18 11.75 0.93 9.28 477 12/31/2001 9:00:00 10.21 11.62 0.93 9.28 478 12/31/2001 10:00:00 10.23 11.83 0.93 9.30 480 <td>466</td> <td>12/30/2001</td> <td>21:00:00</td> <td>10.15</td> <td>11.69</td> <td>0.94</td> <td>9.21</td>	466	12/30/2001	21:00:00	10.15	11.69	0.94	9.21
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470 12/31/2001 1:00:00 10.16 11.73 0.94 9.22 471 12/31/2001 2:00:00 10.18 11.81 0.94 9.24 472 12/31/2001 3:00:00 10.22 11:68 0.94 9.28 473 12/31/2001 4:00:00 10.17 11:65 0.93 9.24 474 12/31/2001 5:00:00 10.17 11.79 0.93 9.26 476 12/31/2001 6:00:00 10.19 11.62 0.93 9.26 477 12/31/2001 8:00:00 10.21 11.62 0.93 9.25 477 12/31/2001 9:00:00 10.23 11.75 0.93 9.28 478 12/31/2001 10:00:00 10.23 11.75 0.93 9.30 479 12/31/2001 11:00:00 10.23 11.83 0.93 9.30 480 12/31/2001 11:00:00 10.17 11.61 0.93 9.27 481 <td>468</td> <td>12/30/2001</td> <td>23:00:00</td> <td>10.17</td> <td>11.87</td> <td>0.94</td> <td>9.23</td>	468	12/30/2001	23:00:00	10.17	11.87	0.94	9.23
471 12/31/2001 2:00:00 10.18 11.81 0.94 9.24 472 12/31/2001 3:00:00 10.22 11.68 0.94 9.28 473 12/31/2001 4:00:00 10.17 11.65 0.93 9.24 474 12/31/2001 6:00:00 10.17 11.65 0.93 9.24 475 12/31/2001 6:00:00 10.19 11.62 0.93 9.26 476 12/31/2001 8:00:00 10.21 11.62 0.93 9.28 477 12/31/2001 9:00:00 10.21 11.62 0.93 9.28 478 12/31/2001 9:00:00 10.23 11.75 0.93 9.30 479 12/31/2001 10:00:00 10.23 11.83 0.93 9.30 479 12/31/2001 11:00:00 10.21 11.81 0.93 9.30 479 12/31/2001 12:00:00 10.17 11.64 0.93 9.27 481 <td>469</td> <td>12/31/2001</td> <td>0:00:00</td> <td>10.16</td> <td>11.79</td> <td>0.94</td> <td>9.22</td>	469	12/31/2001	0:00:00	10.16	11.79	0.94	9.22
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472 12/31/2001 3:00:00 10.22 11.68 0.94 9.28 473 12/31/2001 4:00:00 10.17 11.65 0.93 9.24 474 12/31/2001 5:00:00 10.17 11.79 0.93 9.24 475 12/31/2001 6:00:00 10.19 11.62 0.93 9.26 476 12/31/2001 7:00:00 10.21 11.62 0.93 9.28 477 12/31/2001 8:00:00 10.21 11.62 0.93 9.28 478 12/31/2001 9:00:00 10.23 11.75 0.93 9.30 479 12/31/2001 10:00:00 10.23 11.75 0.93 9.30 479 12/31/2001 11:00:00 10.23 11.81 0.93 9.30 479 12/31/2001 11:00:00 10.12 11.81 0.93 9.30 480 12/31/2001 13:00:00 10.17 11.64 0.93 9.22 483 <td>471</td> <td>12/31/2001</td> <td>2:00:00</td> <td>10.18</td> <td>11.81</td> <td>0.94</td> <td>9.24</td>	471	12/31/2001	2:00:00	10.18	11.81	0.94	9.24
474 12/31/2001 5:00:00 10.17 11.79 0.93 9.24 475 12/31/2001 6:00:00 10.19 11.62 0.93 9.26 476 12/31/2001 7:00:00 10.18 11.75 0.93 9.28 477 12/31/2001 8:00:00 10.21 11.62 0.93 9.28 478 12/31/2001 9:00:00 10.23 11.75 0.93 9.30 479 12/31/2001 10:00:00 10.23 11.83 0.93 9.30 480 12/31/2001 11:00:00 10.2 11.81 0.93 9.27 481 12/31/2001 13:00:00 10.17 11.64 0.93 9.24 482 12/31/2001 13:00:00 10.15 11.76 0.93 9.22 483 12/31/2001 14:00:00 10.14 11.61 0.92 9.20 485 12/31/2001 16:00:00 10.12 11.6 0.92 9.20 486 <td>472</td> <td>12/31/2001</td> <td>3:00:00</td> <td>10.22</td> <td>11.68</td> <td>0.94</td> <td>9.28</td>	472	12/31/2001	3:00:00	10.22	11.68	0.94	9.28
475 12/31/2001 6:00:00 10.19 11.62 0.93 9:26 476 12/31/2001 7:00:00 10.18 11.75 0.93 9:25 477 12/31/2001 8:00:00 10.21 11.62 0.93 9:28 478 12/31/2001 9:00:00 10.23 11.83 0.93 9:30 479 12/31/2001 10:00:00 10.23 11.83 0.93 9:30 480 12/31/2001 11:00:00 10.2 11.81 0.93 9:27 481 12/31/2001 12:00:00 10.17 11.64 0.93 9:24 482 12/31/2001 13:00:00 10.15 11.76 0.93 9:22 483 12/31/2001 14:00:00 10.14 11.61 0.92 9:22 484 12/31/2001 15:00:00 10.12 11.6 0.92 9:20 485 12/31/2001 16:00:00 10.14 11.59 0.92 9:26 487 </td <td>473</td> <td>12/31/2001</td> <td>4:00:00</td> <td>10.17</td> <td>11.65</td> <td>0.93</td> <td>9.24</td>	473	12/31/2001	4:00:00	10.17	11.65	0.93	9.24
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477 12/31/2001 8:00:00 10:21 11:62 0.93 9:28 478 12/31/2001 9:00:00 10:23 11:75 0.93 9:30 479 12/31/2001 10:00:00 10:23 11:83 0.93 9:30 480 12/31/2001 11:00:00 10:2 11:81 0.93 9:27 481 12/31/2001 12:00:00 10:17 11:64 0.93 9:24 482 12/31/2001 13:00:00 10:15 11:76 0.93 9:22 483 12/31/2001 14:00:00 10:14 11:61 0.92 9:22 484 12/31/2001 15:00:00 10:12 11:63 0.92 9:20 485 12/31/2001 15:00:00 10:12 11:63 0.92 9:20 486 12/31/2001 18:00:00 10:14 11:59 0.92 9:26 488 12/31/2001 18:00:00 10:18 11:61 0.92 9:26 48	475	12/31/2001	6:00:00	10.19	11.62	0.93	9.26
478 12/31/2001 9:00:00 10.23 11.75 0.93 9.30 479 12/31/2001 10:00:00 10.23 11.83 0.93 9.30 480 12/31/2001 11:00:00 10.2 11.81 0.93 9.27 481 12/31/2001 12:00:00 10.17 11.64 0.93 9.24 482 12/31/2001 13:00:00 10.15 11.76 0.93 9.22 483 12/31/2001 14:00:00 10.14 11.61 0.92 9.22 484 12/31/2001 15:00:00 10.12 11.63 0.92 9.20 485 12/31/2001 16:00:00 10.12 11.6 0.92 9.20 486 12/31/2001 18:00:00 10.18 11.61 0.92 9.26 488 12/31/2001 19:00:00 10.18 11.61 0.92 9.26 489 12/31/2001 20:00:00 10.18 11.81 0.92 9.26 49	476	12/31/2001	7:00:00	10.18	11.75	0.93	9.25
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480 12/31/2001 11:00:00 10.2 11.81 0.93 9.27 481 12/31/2001 12:00:00 10.17 11.64 0.93 9.24 482 12/31/2001 13:00:00 10.15 11.76 0.93 9.22 483 12/31/2001 14:00:00 10.14 11.61 0.92 9.22 484 12/31/2001 15:00:00 10.12 11.63 0.92 9.20 485 12/31/2001 16:00:00 10.12 11.6 0.92 9.20 486 12/31/2001 17:00:00 10.14 11.59 0.92 9.20 487 12/31/2001 18:00:00 10.18 11.61 0.92 9.26 488 12/31/2001 19:00:00 10.18 11.61 0.92 9.26 489 12/31/2001 20:00:00 10.19 11.61 0.92 9.26 491 12/31/2001 21:00:00 10.18 11.81 0.92 9.28 4	478	12/31/2001	9:00:00	10.23	11.75	0.93	9.30
481 12/31/2001 12:00:00 10.17 11.64 0.93 9.24 482 12/31/2001 13:00:00 10.15 11.76 0.93 9.22 483 12/31/2001 14:00:00 10.14 11.61 0.92 9.22 484 12/31/2001 15:00:00 10.12 11.63 0.92 9.20 485 12/31/2001 16:00:00 10.12 11.6 0.92 9.20 486 12/31/2001 17:00:00 10.14 11.59 0.92 9.26 487 12/31/2001 18:00:00 10.18 11.61 0.92 9.26 488 12/31/2001 19:00:00 10.18 11.61 0.92 9.26 489 12/31/2001 20:00:00 10.18 11.61 0.92 9.27 490 12/31/2001 21:00:00 10.18 11.81 0.92 9.28 491 12/31/2001 23:00:00 10.2 11.77 0.92 9.28 4	479	12/31/2001	10:00:00	10.23	11.83	0.93	9.30
482 12/31/2001 13:00:00 10:15 11:76 0.93 9:22 483 12/31/2001 14:00:00 10:14 11:61 0.92 9:22 484 12/31/2001 15:00:00 10:12 11:63 0.92 9:20 485 12/31/2001 16:00:00 10:14 11:59 0.92 9:20 486 12/31/2001 17:00:00 10:14 11:59 0.92 9:26 487 12/31/2001 18:00:00 10:18 11:61 0.92 9:26 488 12/31/2001 19:00:00 10:18 11:61 0.92 9:26 489 12/31/2001 20:00:00 10:19 11:61 0.92 9:26 490 12/31/2001 21:00:00 10:18 11:81 0.92 9:28 491 12/31/2001 22:00:00 10:2 11:77 0.92 9:28 492 12/31/2001 23:00:00 10:17 11:62 0.91 9:26	480	12/31/2001	11:00:00	10.2	11.81	0.93	9.27
483 12/31/2001 14:00:00 10.14 11.61 0.92 9.22 484 12/31/2001 15:00:00 10.12 11.63 0.92 9.20 485 12/31/2001 16:00:00 10.12 11.6 0.92 9.20 486 12/31/2001 17:00:00 10.14 11.59 0.92 9.22 487 12/31/2001 18:00:00 10.18 11.61 0.92 9.26 488 12/31/2001 19:00:00 10.18 11.61 0.92 9.26 489 12/31/2001 20:00:00 10.19 11.61 0.92 9.26 489 12/31/2001 20:00:00 10.18 11.81 0.92 9.27 490 12/31/2001 21:00:00 10.18 11.81 0.92 9.28 491 12/31/2001 22:00:00 10.2 11.77 0.92 9.28 492 12/31/2001 23:00:00 10.17 11.62 0.91 9.28 4	481	12/31/2001		10.17	11.64	0.93	9.24
484 12/31/2001 15:00:00 10.12 11.63 0.92 9.20 485 12/31/2001 16:00:00 10.12 11.6 0.92 9.20 486 12/31/2001 17:00:00 10.14 11.59 0.92 9.22 487 12/31/2001 18:00:00 10.18 11.61 0.92 9.26 488 12/31/2001 19:00:00 10.18 11.61 0.92 9.26 489 12/31/2001 20:00:00 10.19 11.61 0.92 9.27 490 12/31/2001 21:00:00 10.18 11.81 0.92 9.26 491 12/31/2001 22:00:00 10.2 11.77 0.92 9.28 492 12/31/2001 23:00:00 10.17 11.62 0.91 9.26 493 01/01/2002 0:00:00 10.19 11.63 0.91 9.28 494 01/01/2002 1:00:00 10.2 11.79 0.91 9.29 495<	482	12/31/2001	13:00:00	10.15	11.76	0.93	9.22
485 12/31/2001 16:00:00 10.12 11.6 0.92 9.20 486 12/31/2001 17:00:00 10.14 11.59 0.92 9.22 487 12/31/2001 18:00:00 10.18 11.61 0.92 9.26 488 12/31/2001 19:00:00 10.18 11.61 0.92 9.26 489 12/31/2001 20:00:00 10.19 11.61 0.92 9.26 490 12/31/2001 21:00:00 10.18 11.81 0.92 9.26 491 12/31/2001 21:00:00 10.18 11.77 0.92 9.28 492 12/31/2001 23:00:00 10.17 11.62 0.91 9.26 493 01/01/2002 0:00:00 10.19 11.63 0.91 9.28 494 01/01/2002 1:00:00 10.2 11.79 0.91 9.29 495 01/01/2002 3:00:00 10.21 11.6 0.91 9.30 497 </td <td>483</td> <td>12/31/2001</td> <td>14:00:00</td> <td>10.14</td> <td>11.61</td> <td>0.92</td> <td>9.22</td>	483	12/31/2001	14:00:00	10.14	11.61	0.92	9.22
486 12/31/2001 17:00:00 10.14 11.59 0.92 9.22 487 12/31/2001 18:00:00 10.18 11.61 0.92 9.26 488 12/31/2001 19:00:00 10.18 11.61 0.92 9.26 489 12/31/2001 20:00:00 10.19 11.61 0.92 9.27 490 12/31/2001 21:00:00 10.18 11.81 0.92 9.26 491 12/31/2001 22:00:00 10.2 11.77 0.92 9.28 492 12/31/2001 23:00:00 10.17 11.62 0.91 9.26 493 01/01/2002 0:00:00 10.17 11.62 0.91 9.28 494 01/01/2002 1:00:00 10.2 11.79 0.91 9.29 495 01/01/2002 2:00:00 10.2 11.6 0.91 9.30 497 01/01/2002 3:00:00 10.21 11.6 0.91 9.28 498	484	12/31/2001	15:00:00	10.12	11.63	0.92	9.20
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490 12/31/2001 21:00:00 10.18 11.81 0.92 9.26 491 12/31/2001 22:00:00 10.2 11.77 0.92 9.28 492 12/31/2001 23:00:00 10.17 11.62 0.91 9.26 493 01/01/2002 0:00:00 10.19 11.63 0.91 9.28 494 01/01/2002 1:00:00 10.2 11.79 0.91 9.29 495 01/01/2002 2:00:00 10.2 11.6 0.91 9.29 496 01/01/2002 3:00:00 10.21 11.6 0.91 9.30 497 01/01/2002 4:00:00 10.2 11.59 0.91 9.28 498 01/01/2002 5:00:00 10.19 11.61 0.91 9.30 499 01/01/2002 6:00:00 10.21 11.59 0.91 9.30 500 01/01/2002 7:00:00 10.23 11.75 0.91 9.32 501 01/01/2002 8:00:00 10.24 11.62 0.91 9.34	488	12/31/2001	19:00:00	10.18	11.61	0.92	9.26
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	503	01/01/2002	10:00:00	10.27	11.64	0.90	9.37

504	01/01/2002	11:00:00	10.26	11.66	0.90	9.36
505	01/01/2002	12:00:00	10.23	11.63	0.90	9.33
506	01/01/2002	13:00:00	10.22	11.58	0.90	9.32
507	01/01/2002	14:00:00	10.22	11.6	0.90	9.32
508	01/01/2002	15:00:00	10.23	11.6	0.90	9.33
509	01/01/2002	16:00:00	10.24	11.6	0.90	9.34
510	01/01/2002	17:00:00	10.26	11.59	0.90	9.36
511	01/01/2002	18:00:00	10.28	11.59	0.89	9.39
512	01/01/2002	19:00:00	10.31	11.61	0.89	9.42
513	01/01/2002	20:00:00	10.34	11.75	0.89	9.45
514	01/01/2002	21:00:00	10.34	11.64	0.89	9.45
515	01/01/2002	22:00:00	10.37	11.59	0.89	9.48
516	01/01/2002	23:00:00	10.36	11.73	0.89	9.47
517	01/02/2002	0:00:00	10.36	11.57	0.89	9.47
518	01/02/2002	1:00:00	10.38	11.63	0.89	9.49
519	01/02/2002	2:00:00	10.38	11.52	0.89	9.49
520	01/02/2002	3:00:00	10.43	11.66	0.88	9.55
521	01/02/2002	4:00:00	10.4	11.73	0.88	9.52
522	01/02/2002	5:00:00	10.43	11.67	0.88	9.55
523	01/02/2002	6:00:00	10.42	11.59	0.88	
524	01/02/2002	7:00:00	10.43	11.56	0.88	
525	01/02/2002	8:00:00	10.46	11.65	0.88	
526	01/02/2002	9:00:00	10.48	11.55		
527	01/02/2002	10:00:00	10.47	11.55	0.88	
528	01/02/2002	11:00:00	10.46	11.55	0.88	
529	01/02/2002	12:00:00	10.43	11.7	0.88	
530	01/02/2002	13:00:00	10.39	11.57	0.87	9.52
531	01/02/2002	14:00:00	10.37	11.75	0.87	
532	01/02/2002	15:00:00	10.35	11.7	0.87	
533	01/02/2002	16:00:00	10.36	11.71	0.87	1
534	01/02/2002	17:00:00	10.35	11.66	0.87	
535	01/02/2002	18:00:00	10.36	11.6	0.87	
536	01/02/2002	19:00:00	10.36	11.73		
537	01/02/2002	20:00:00	10.33	11.73		
538	01/02/2002	21:00:00	10.34	11.8		I
539	01/02/2002	22:00:00	~	11.78		9.43
540		23:00:00	10.32	11.57		
541	01/03/2002	0:00:00	10.29		·	9.43
542		1:00:00	10.26	11.55		
543		2:00:00	10.27	11.69		·
544	01/03/2002	3:00:00	10.2	11.71	· · · · · · · · · · · · · · · · · · ·	
545	01/03/2002	4:00:00	10.22	11.69		
546	01/03/2002	5:00:00		11.52		·
547	01/03/2002	6:00:00		11.62		·
548		7:00:00	10.19	11.58	··· ···	
549		8:00:00		11.65		
550		9:00:00		11.67		
551	01/03/2002	10:00:00				
552	01/03/2002	11:00:00		11.71		
553	01/03/2002	12:00:00		11.58		
554		13:00:00		11.51		
555		14:00:00			·	
555	31,30,200Z					

556	01/03/2002	15:00:00	10.01	11.63	0.85	9.16
557	01/03/2002	16:00:00	10	11.5	0.85	9.15
558	01/03/2002	17:00:00	10.01	11.7	0.84	9.17
559	01/03/2002	18:00:00	10.02	11.48	0.84	9.18
560	01/03/2002	19:00:00	10.03	11.65	0.84	9.19
561	01/03/2002	20:00:00	10.04	11.48	0.84	9.20
562	01/03/2002	21:00:00	10.06	11.59	0.84	9.22
563	01/03/2002	22:00:00	10.05	11.52	0.84	9.21
. 564	01/03/2002	23:00:00	10.07	11.4	0.84	9.23
565	01/04/2002	0:00:00	10.05	11.48	0.84	9.21
566	01/04/2002	1:00:00	10.03	11.47	0.84	9.19
567	01/04/2002	2:00:00	10.05	11.48	0.83	9.22
568	01/04/2002	3:00:00	10.09	11.63	0.83	9.26
569	01/04/2002	4:00:00	10.08	11.49	0.83	9.25
570	01/04/2002	5:00:00	10.13	11.6	0.83	9.30
571	01/04/2002	6:00:00	10.15	11.55	0.83	9.32
572	01/04/2002	7:00:00	10.19	11.43	0.83	9.36
573	01/04/2002	8:00:00	10.21	11.65	0.83	9.38
574	01/04/2002	9:00:00	10.24	11.51	0.83	9.41
575	01/04/2002	10:00:00	10.26	11.46	0.83	9.43
576	01/04/2002	11:00:00	10.25	11.45		9.43
577	01/04/2002	12:00:00	10.23	11.55	0.82	9.41
578	01/04/2002	13:00:00	10.2	11.59	0.82	9.38
579	01/04/2002	14:00:00	10.19	. 11.46		9.37
580	01/04/2002	15:00:00	10.19	11.57		9.37
581	01/04/2002	16:00:00	10.2	11.57	0.82	9.38
582	01/04/2002	17:00:00	10.2	11.61	0.82	9.38
583	01/04/2002	18:00:00	10.2	11.67	0.82	9.38
584	01/04/2002	19:00:00	10.21	11.64		9.39
585	01/04/2002	20:00:00	10.21	11.43		9.39
586	01/04/2002	21:00:00	10.2	11.52		9.39
587	01/04/2002	22:00:00	10.23	11.62	· · · · · · · · · · · · · · · · · · ·	9.42
588	01/04/2002	23:00:00	10.21	11.57	0.81	9.40
589	01/05/2002	0:00:00	10.19	11.53		9.38 9.41
590		1:00:00	10.22	11.55		9.41
591		2:00:00	10.22			9.42
592 593		3:00:00 4:00:00	10.23 10.22			9.42
593		5:00:00	10.22			9.41
595		6:00:00	10.22			
596		7:00:00	10.23			
597		8:00:00	10.24	 		
598		9:00:00	10.25		ļ	
599		10:00:00	10.27			·
600		11:00:00	10.26			
601		12:00:00	10.24	·		
602		13:00:00	10.2			-
603		14:00:00	10.19			-
604		15:00:00	10.17		·	
605		16:00:00	10.17			
606		17:00:00	10.15			
607		18:00:00				
	01,00,2002	. 5.55.55	10.10	1 11-77	5.70	0.00

608	01/05/2002	19:00:00	10.18	11.35	0.79	9.39
609	01/05/2002	20:00:00	10.19	11.62	0.79	9.40
610	01/05/2002	21:00:00	10.16	11.35	0.79	9.37
611	01/05/2002	22:00:00	10.16	11.39	0.79	9.37
612	01/05/2002	23:00:00	10.13	11.49	0.79	9.34
· 613	01/06/2002	0:00:00	10.12	11.71	0.79	9.33
614	01/06/2002	1:00:00	10.12	11.56	0.78	9.34
615	01/06/2002	2:00:00	10.11	11.56	0.78	9.33
616	01/06/2002	3:00:00	10.1	11.54	0.78	9.32
617	01/06/2002	4:00:00	10.07	11.51	0.78	9.29
618	01/06/2002	5:00:00	10.06	11.6	0.78	9.28
619	01/06/2002	6:00:00	10.06	11.49	0.78	9.28
620	01/06/2002	7:00:00	10.06	11.55	0.78	9.28
621	01/06/2002	8:00:00	10.02	11.39	0.78	9.24
622	01/06/2002	9:00:00	10.01	11.41	0.78	9.23
623	01/06/2002	10:00:00	10.01	11.57	0.77	9.24
624	01/06/2002	11:00:00	9.95	11.41	0.77	9.18
625	01/06/2002	12:00:00	9.9	11.49	0.77	9.13
626	01/06/2002	13:00:00	9.85	11.52	0.77	9.08
627	01/06/2002	14:00:00	9.77	11.39	0.77	9.00
628	01/06/2002	15:00:00	9.67	11.58	0.77	8.90
629	01/06/2002	16:00:00	9.6	11.6	0.77	8.83
630	01/06/2002	17:00:00	9.56	11.52	0.77	8.79
631	01/06/2002	18:00:00	9.47	11.38	0.77	8.70
632	01/06/2002	19:00:00	9.5	11.34	0.76	8.74
633	01/06/2002	20:00:00	9.49	11.35	0.76	8.73
634	01/06/2002	21:00:00	9.49	11.63	0.76	8.73
635	01/06/2002	22:00:00	9.51	11.55	0.76	8.75
636	01/06/2002	23:00:00	9.49	11.43	0.76	8.73
637	01/07/2002	0:00:00	9.52	11.54	0.76	8.76
638	01/07/2002	1:00:00	9.53	11.5	0.76	8.77
639	01/07/2002	2:00:00	9.56	11.33	0.76	8.80
640	01/07/2002	3:00:00	9.58	11.52	0.76	8.82
641	01/07/2002	4:00:00	9.58	11.43	0.76	8.82
642	01/07/2002	5:00:00	9.58	11.51	0.75	8.83
643		6:00:00		11.55		
644	01/07/2002	7:00:00	9.62	11.58	0.75	
645	01/07/2002	8:00:00	9.64	11.58	·	
646		9:00:00	9.65		0.75	
647	01/07/2002	10:00:00	9.65	11.57	0.75	8.90
648	01/07/2002	11:00:00	9.65		0.75	8.90
649		12:00:00	9.65			
650	01/07/2002	13:00:00	9.64			
651	01/07/2002	14:00:00	9.65			8.91
652		15:00:00	9.66		 	8.92
653		16:00:00	9.68		0.74	8.94
654		17:00:00	9.71	11.5	0.74	
655		18:00:00	9.74			
656		19:00:00	9.76			
657	01/07/2002	20:00:00	9.81	11.47	0.74	9.07
658		21:00:00		11.51	0.74	
659	01/07/2002	22:00:00	9.84	11.41	0.74	9.10

660	01/07/2002	23:00:00	9.86	11.29	0.73	9.13
661	01/08/2002	0:00:00	9.87	11.37	0.73	9.14
662	01/08/2002	1:00:00	9.91	11.51	0.73	9.18
663	01/08/2002	2:00:00	9.93	11.55	0.73	9.20
664	01/08/2002	3:00:00	9.97	11.35	0.73	9.24
665	01/08/2002	4:00:00	9.98	11.52	0.73	9.25
666	01/08/2002	5:00:00	10	11.29	0.73	9.27
667	01/08/2002	6:00:00	10.03	11.52	0.73	9.30
668	01/08/2002	7:00:00	10.05	11.33	0.73	9.32
669	01/08/2002	8:00:00	10.09	11.25	0.73	9.36
670	01/08/2002	9:00:00	10.09	11.29	0.72	9.37
671	01/08/2002	10:00:00	10.12	11.45	0.72	
672	01/08/2002	11:00:00	10.11	11.52	0.72	9.39

A-3 PREMEABILITY TEST



FS/WMP DIV.

STANCILLS INC. QUARRY PERMEABILITY TESTS

On June 4, 2002, two soil test borings were installed in the overburden at the Stancills Inc. Quarry. The first test boring, designated Well No.1 was drilled to approximately 45 feet deep. The second boring (Well No. 2) was drilled to approximately 25 feet deep. Both test wells were installed and completed in accordance with American Society for Testing and Materials (ASTM) Standard D 6391 - 99. Four-inch diameter PVC casing was used to case the wells. No water was encountered during drilling of the test borings.

On June 5, 2002, vertical and horizontal permeability tests were conducted on the two test wells. Data was recorded in the field using the falling head method as specified in ASTM D 6391 - 99. This method was designed to determine permeability values that are the maximum possible in the vertical direction and the minimum possible for the horizontal direction.

Vertical permeability tests were conducted first. For the test on Well No. 2, the entire length of the PVC casing was filled with water. The temperature of the water was recorded in order to allow for kinematic viscosity adjustments in the calculations. The depth to water versus time was then recorded at various increments. For the vertical permeability test on Well No. 1, the PVC casing was filled to as high a depth as possible. It was not possible to fill the casing of Well No. 1 to its top due to a more permeable layer that was encountered at the bottom of this boring. Otherwise, the vertical permeability test proceeded in the same manner as for Well No. 2.

After completion of each vertical permeability test, the on-site drill rig was used to extend the depth of each test well below the bottom of the PVC casing. The wells were deepened within the inside diameter of the installed casing, to depths as specified in ASTM D 6391 - 99. Upon completion of deepening of the wells and removal of any residual water, horizontal permeability test data were obtained using the same procedures used for the vertical permeability tests.

Using the formulae in ASTM D 6391 - 99, vertical and horizontal permeability values were calculated for each well. This was accomplished by calculating the permeability for each recorded time interval and then determining the time-weighted average permeability for each test, as specified in ASTM D 6391 - 99.

STANCILLS INC. QUARRY

TIME-WEIGHTED AVERAGE
PERMEABILITY SUMMARY

22-141 SO SHEETS 22-142 100 SHEETS 22-144 200 SHEETS



WELL NO.	VERTICAL PERMEABILITY	HORIZONTAL PERMEABILITY
1 (25 FT DEEP)	1.80×10-3 cm/sec	2.37 ×10-3 cm/sec
2 (45 FT DEEP)	5.80×10-4cm/sec	1.47×10-4 cm/sec

```
GI= (TTd2/11 Di) [1+a(Di/461)]
```

d: 10.16 cm

D, = 10.16 cm (140 : 9- 51460 z)

b = 1847.1 cm - 13 93.2 cm = 453.9 cm (STAGE) = 441.2 (STAGE 2)

a: 0

6, (51966 1) = [Th (10.16)2/11 (10.16)] = Th (10.16)/11 = 2.90

20 1858 DIAMETERS = 20x 10.16 cm = 203.2 - USE (MAX)

1. HI = H + 263.2 = H2

 $K_{i} = \frac{0.907}{1.011} (2.90) \left[l_{H} \left(\frac{H_{i}}{H_{2}} \right) \right] / (l_{2} - l_{i}) = 2.603 \times l_{1} \frac{H_{i}}{H_{2}} \left[l_{2} - l_{i} \right]$

em fishe.

VERTICAL & E (SEC) | tz- E1 H . (cm) Hz (cm) K, (an/see) Ki (con liere 252.2 0.00545 5,45 410-3 36 252.2 233.9 36 2.24 ×10-3 0.00224 15 233.7 230.7 51 2.07 × 10-3 0.00207 68 17 236.9 227.8 2.16 × 10 - 3 0.00216 84 224.8 227.8 16 1.59×10-3 0.00159 221.8 106 2 Z 224.8 1.47 × 10-3 0.00147 218.7 131 221.8 25 1.20×10-3 0.00/20 215.7 218.7 161 30 8.76 ×10-4 0.000876 215.7 212.6 204 43 1.03×10-3 0.00103 212.6 209.6 240 36 7.92×10-4 206.5 0.000792 209.6 49 289 289 701116

TIME WEIGHTED AVERAGE KI:

K, (t2-t1)

0.1961

K' = 0.5705 = 0.00180 = 1.80×10 3 am/set

0.0336

0.0352

0.0345

0.0350

0.0366 -

0.0360

0.0377

0.0370

0.5205

L= 1405.9 - 1393.2 = 12.7 Cm

D = 10.16 cm

b= 447.6 cm

F = 1 - (.5623 e -1.866 4/D) = 1- (5623 c -1.9575) = 1- (.5623 x.1412) = 1- . 0794 = 10.9206

G5= [4/62/0+4/0]+[1+(462/0+4/0]2]2 [462/0-4/0]+51+(462/0-4/0)27/2

[(4×447.6)/10.16 + 12.7] - {1+[(4×447.6)/10.16 + 12.7] }

[4×447.6/10.6 - 12.7] 1 [1+[(4×447.6)/10.16 - 12.7]2712

= 177.470 + (1+ 31495.769) 1/2 167.656 + (1+ 28108.42) 1/2

 $= \frac{177.470}{167.656} + \frac{177.473}{167.656} = \frac{354.943}{335.315} = \left(1.0585\right)$

64: 12.7 + [1+ (12.7)2] 2 - [2.8508]

G3 = 2 Ln (2.8508) +0 = 12.0952

G== (10.16 2/16(.9206)(12.7)) x 2.0952 = 1,1562

Re62: 0.866 (1.1562):

K2: 1.013 In (H1/H2)

At (sec)	tz-t,	H. (Cris)	Hz (cm)	Kz (con/soc)	1/2 (Con/Ales)	K2 (tz-t)
0	_		280.Z	_		~
10	10	280.2	237.5	1.67×10-2	0.0167	0.1675
19	7	237.5	231.4	2.93×10-3	0.00293	0.0264
26	7	231.4	228.4	1.89×10-3	0.00189	0.0132
35	9	228.4	225.3	1.52×10-3	0.00152	0.0137
48	13	2 2 5 . 3	222.3	1.04×103	•	0.0136
58	10	222.3	219.2	1.42×10-3	0.00142	0.0142
73	15	219.2	216.2	9.31×10-4	0.000931	0.0140
94	21	716.2	2/3./	6.77×10-4	0.000697	0.0146
123	29	2/3./	210.1	4.89×10-4	0.0004 69	0.0142
	123					0.2914

 $Kz' = \frac{0.2914}{123} = 0.00237 = [2.37 \times 10^{-3}] \text{ cm/sec}$

RtG1 = Tr (10.16) x 0.949 = 2.724

b, = 1841.1 - 764.5 = 1082.6 cm

USE ZE TEST ALAMIETERS ! HI : Hz : 11 + 203.2

 $K_1 = 2.724 \times \frac{l_1}{(t_2 \cdot t_1)}$ c_{111}/sac

at (sec)	t2-t1	H. (c.)	Hz (cm)	K, (confised)	K, (cm/sec)	K, (tz-ti)
0	_		967.7	-	-	-
68	68	967.7	673.6	1.45×102	0.0145	0.9869
161	93	673.6	624.8	2.20 ×10-3	0.00220	0.2049
232	71	624.8	597.1	1.74×10-3	0.00174	C.1235
504	272	547.1	\$21.2	1.36 10-3	0.00136	0.3703
1103	599	521.2	4.27.9	1	0.000897	0.5373
1683	580	427.9	402.0	1 -	0.060293	0.1708
3593	1910	402.0	247.1		0.000207	0.4000
5347	1754	347.1	310.2	1.75×10-4	0.000175	0.3062
	5347					3.0499

 $K_1 = \frac{3.0999}{5.77}$ $K_1 = 0.000580 = [5.80 \times 10^{-4}] \text{cm/sac}$

F-141 SO SHEETS F-142 100 SHEETS F-144 200 SHEETS

L= 784.9 - 764.5 = 70.4 cm

D= 10.16 cm $F = 1 - \left(.5623 e^{\left(-1.546\left(\frac{26.4}{70.76}\right)\right)}\right) = 1 - \left(.5623 e^{-3.144}\right) = 1 - 0.0431 = \left(0.9567\right)$

G4: 20.4/10.16 + [1+ (20.4/10.16) 2] 12 = (4.2510)

G3: Zen (4.2510) +0 = [2.8943]

 $G_2 = \left(\frac{10.16^2}{16(.9569)(20.4)}\right) (2.8943) = 0.9566$

Rt Gz : 0.928 x 0.9566 = 0.8781

K2: 0.8781 Pm (H1/H2)

2-141 50 SHEETS 2-142 100 SHEETS 2-144 200 SHEETS

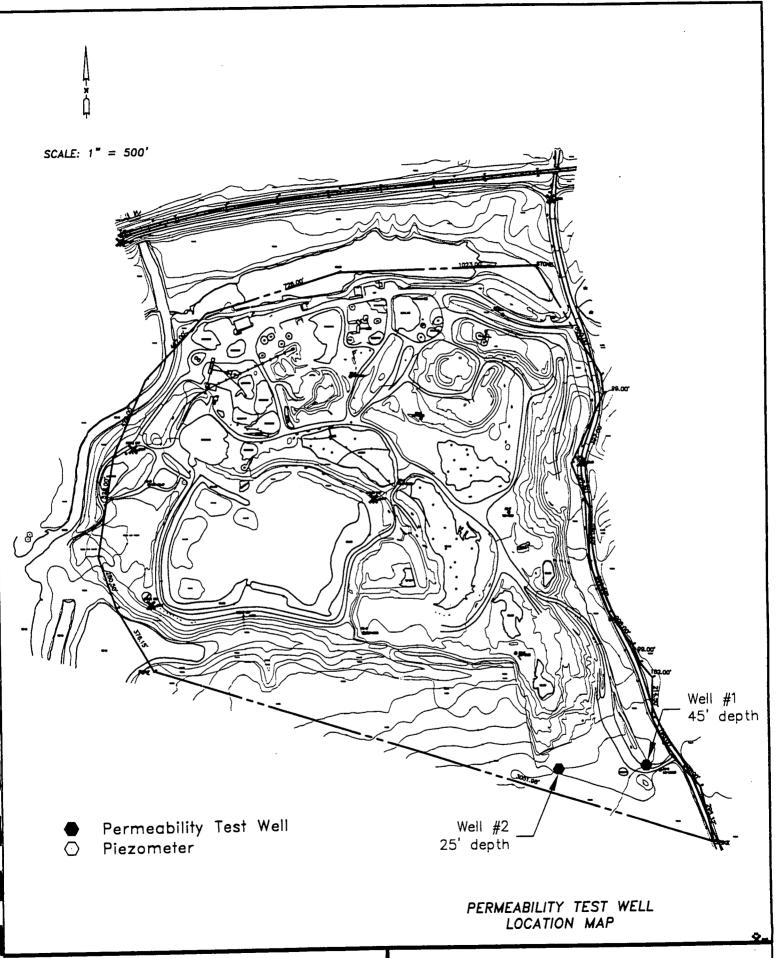
AMPALO

At (suc)	tz-t,	H, (cm)	Hz (cm)	Kz (cm/sec)	K2 (confree)	K2(22-61)
0		_	988.1	_	_	
83	មិន	988.1	9 z.E. 7	6.56×10-4	0.000656	0.0544
3/2	274)	928.7	633.6	4.14×10 -4	0.000414	0.0949
609	2.97	633.6	741.2	3.47×10-4	0.000 347	0./032
1024	415	741.2	643.7	2.98×10-4	0.000298	0.1238
14.84	460	643.7	564.4		0.000251	0.1154
1834	350	564.4	516.7	2.12×10-4	0.000 212	0.0741
3039	1205	518.7	4-71.2		0.000152	0.1828
4293	1254	421.2	380.3	7.15410-5	0.0000715	0.0897
5147	854	380.3	357.8		0.0000627	0.0536
6685	1538	357.8	323.6	5.74×10-5	0.0000574	0.0882
-	6685					0.9801

TIME - WEIGHTED AVERAGE:

 $K_{2}' = \frac{0.9801}{6685} = 0.000147 = [1.47 \times 10^{-4} \text{ cm/sec}]$

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KCE ENGINEERING, INC.

EXECUTIVE CENTER

3300 NORTH PROOF ARM, SHITE 315

ELLICOTT GITT, MARTING 21043

STANCILL QUARRY CECIL COUNTY, MARYLAND

A-4 WELL INVENTORY

SCOOL OF THE DEPTH PEEN LIG RATE REFORE DURING

		2		,	,	•)	V	4	•	•	•
PER OW	NER_N USE_FO	SUBDI RO	AD_NA R	RID27.RID27 IO	N_DATE	_DEPTH_	DEPTH REEN	_1 /G_	RATE BE	FORE	DUR	<u>ING</u>
✓ CE700016	SMOKER, NO D	GREENB	CARPENTER		1080000	09/10/1969	53	45	48	15	7	20
∕CE700046	SLAYMAN, J D		CARPENTER	R 625000	1075000	09/20/1969	; 100	100	95	10	40	60 +
✓CE710069	FRONHEISE I		CARPENTER	R 630000	1080000	09/23/1970	67	61	62	30	13	42
√CE710075	BLACKBURN, D		MD 7	635000	1080000	10/26/1970	67	61	62	10	22	55
✓CE710079	BOOCHELLI, D		MECHANICS	s 635000	1080000	10/19/1970	100	42	42	12	50	65
✓ CE710101	DELANEY, WI D	J J BABE	LITTLE RIVE	ER 640000	1070000	11/07/1970	59	54	. 54	15	20	50
✓CE710238	RAPPOLD, E D	GREENB	WOODALL	625000	1080000	09/03/1971	75	70	70	20	10	75
✓CE710270	PEEL, WALL D	CARPEN	CARPENTE	RS 625000	1075000	06/04/1971	133	120	128	30	54	105
∠ CE710307	SPENGLER, D	GREEN B	WOODALL	RD 625000	1080000	07/07/1971	137	127	132	12	15	20
✓CE720016	ZERBE, EUG D	GREEN B	GREEN BAI	NK 625000	1080000	08/08/1971	83	78	78	7	18	35
✓CE720085	CLEMENS, H D	GREENB	CARPENTE	ER 625000	1080000	02/01/1972	2 45	40	40	30	15	
✓CE720103	PORTER, GE D		JACKSON S	ST 635000	1070000	12/08/1971	82	82	82	35	14	22
✓ CE720104	PORTER, GE D	•	WINCH RD	635000	1070000	12/08/197	1 125	66	85	5	30	84
√CE720105	PORTER, GE D		WINCHRD	635000	1070000	12/10/197	1 123	26	26	40	16	24
✓ CE720194	TRIBBLE, LE D		JACKSON	ST 635000	1070000			•				
✓ CE720354	SOMMERS, C D	,	GREENBA	NK 630000	1080000	09/03/197	2 75	70	70	20	1	75
✓CE730063	ANDRICHYN, D	CHESNU	CARPENTE	ER 625000	1080000	08/30/197	2 78	74	73	30	16	54
✓ CE730116	PORTER, GE D		WINCH	635000	1070000	02/03/197	5 82	54	54	2	25	70
	PORTER, GE D		JACKSON	ST 635000	1070000							

Monday, March 18, 2002

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Page 1 of 8

PER OW	NER_N USE_FO	SUBDI RO	AD_NA	RID27 RID27 10	N_DATE	_DEPTH_	DEPTH 'REEN_	1 G	RATE B	EFORE	DUF	RING
✓ CE730366	VERDEL CON I		NORTHEAS		1075000	05/22/1973	110	105	103	10	78	90
★ CE730536	INGRAM, JAS D		BURNT BA	RN 630000	1075000							
✓ CE730556	MARKUS, WA D		RT 40	640000	1080000	10/10/1973	150	60	60	4	40	140
√ CE730573	BRITTINGHA D	GREENB	CARPENTS	ER 625000	1080000							
√ CE730578	MAST, VERN D	GREENB	CARPENTI	ER 625000	1080000							
✓ CE730659	SPADAFORA, D		CARPENT	ERS 635000	1080000	01/08/1974	112	107	107	12	40	60
✓ CE730664	ROARK, PAT D		WOODALL	RD 630000	1080000	05/19/1974	90	85	85	5	40	90
✓ CE730741	PORTER, GE D		JACKSON	ST 635000	1075000	03/13/1974	260	65	65	2	30	180
√ CE730822	DAVIS, CLAU D		GREENSP	PRIN 635000	1080000	05/29/1974	70	65	65	20	18	40
✓CE730827	JONES, IDW D		GREENBA	ANK 625000	1070000	06/06/1974	105	100	100	10	50	80
✓ CE731141	SLAYMAN, J D		CARPENT	ERS 635000	1080000	05/07/1975	5 90	85	85	12	40	60
✓ CE731158	NOLL, CLAIR D	GREEN B	WOODALI	L RD 630000	1080000	04/29/197	5 105	98	100		23	42
·/ CE731195	ARMSTRONG D		CARPENT	TERS 625000	1070000	09/03/197	5 90	85	85	25	35	60
✓ CE731263	RODEHEAVE D		CANVAS	BAC 635000	1080000	08/09/197	5 93	88	88	12	30	40
/ CE731274	GLENN, GEO D		BURNT B	ARN 635000	1070000	09/05/197	5 167	160	162	35	93	125
X CE731295	CURRIN, LIN D		MOUNTAI	IN HI 635000	1075000							
✓ CE731339	BETTER HO D		MT VIEW	RD 635000	1075000	10/22/197	5 185	180	180	30	99	128
✓ CE731401	MCELYEA, W D		MT VIEW	RD 635000	1075000	02/09/197	6 · 181	132	176	5 25	99	124
✓ CE731466	ALGAR, HAR D		` MD 7	630000	1070000	04/20/197	6 127	20	20	5	30	80
X CE731478	KREIDER, S D		MOUNTA	IN HI 625000	1070000							
CE731481	SIMPSON, E D	- -	MOUNTA	IN HI 635000	1070000	12/09/197	6 60	55	5	5 8	30	40

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PER	OWNER_N USI	E FO	SUBDI	ROAD_NA	RID27 RID27	ION_DATE	_DEPTH _	DEPTH 'REE!	<u> </u>	RATE B	EFORE	DUK	<u> PING</u>
✓ CE7315			•	MOUNTA			12/13/1976		60	60	10	35	45
∕CE7315		D		WOODAL	L RD 63500	0 1080000	08/31/1976	90	85	85	15	50	70
✓ CE7315	597 GOOD, ROD	D·		EDGEWA	ATER 63500	0 1080000	08/24/1976	40	35	35	8	5	20
✓ CE7315	598 WARRINGTO	D		PRINCIP	IO _ 63500	0 1070000	05/03/1977	100	37	37	8	25	100
✓ CE7317	756 ROBINSON, L	D	GREE	NB BURNT E	3ARN 63000	0 1080000	10/06/1976	84	79	79	12	60	61
/ CE7318	814 GREENE, DA	D		BURNT E	BARN 62500	0 1070000	01/24/1977	114	106	109	20	48	90
✓ CE731	931 DAROIS, RO	D		GREENE	3ANK 63500	1080000	03/31/1977	110	105	105	30	30	60
√ CE7319	956 MAST JR, VE	D		WOODA	LL RD 63500	00 1080000	05/19/1977	50	45	45	20	5	25
✓CE731	957 BRITTINGHM	, D		WOODA	LL RD 63500	1080000	05/24/197	7 90	85	85	6	10	50
√CE731	996 MCVEY, GEO	D	•	WOODA	LL ST 63500	00 1080000	07/18/197	7 70	65	65	10	40	50
√ CE732	9063 GIRALDI, RO	D ·		JACKSO	ON ST 6350	00 1070000	01/31/197	8 144	25	25	. 4	20	144
√ CE732	2089 TODT, PAUL	D		WOODA	LL RD 6350	00 1080000	10/14/197	7 90	85	85	12	40	60
✓ CE732	2163 MELRATH, K	D		WOODA	LL RD 6350	1080000	09/22/197	7 50	45	45	30	10	40
✓CE732	2168 VANSICKEL,	D		OLD RT	7 6350	00 1070000	08/30/197	7 244	106	106	2	80	244
√CE732	2272 ROGERSON,	D		MOUNT	AIN HI 6350	00 1070000)						
✓CE732	2286 TRI STATE M	1 1		US RT 4	10 6400	00 1080000	01/26/197	8 204	83	83	•	60	100
√CE732	2386 ROGERSON	, D		MOUNT	AIN HI 6300	00 1075000	02/02/197		167	167		110	160
✓ CE732	2518 BRITTINGHA	\ D		WOODA	ALL 6350	00 1080000	06/06/197	8 50	45	45		10	30
✓ CE732	2584 HUGHES, RO	O D		, MOOD	ALL RD 6300	00 1080000	09/09/197	78 40	35	35		25	35
✓ CE732	2605 IREY, DON	ï	CRAF	TH CARPE	NTERS 6250	00 1080000	0 10/10/197	78 70	61	65		19	30
✓CE732	2664 FRAZIER, ZE	D	•	RT 7 PF	RINCIPI 6350	000 1070000	0 03/11/200	00 700	100	100	1	60	210

Monday, March 18, 2002

PER OW	NER_N USE_FO	SURDI RO	AD NA	RID27 RID2	7 ION_DA	TE _DEPT	rH_D	EPTH REEN_	1 /G_	RATE BE.	FORE	DUR	<u>ING</u>
✓ CE732718	NIXDORF, JO D	3022	CLARK RD		000 10800			150	145	145	15	60	90
/CE732724	PASCAL, VIR D		GREENBA	NK 635	000 1080	000 11/09/	1978	55	50	50	15	6	30
/CE732851	GARBER, CA D		CARPENT	ERS 625	0000 1070	000 02/22/	1979	87	82	82	20	40	60
√CE732902	BOSTIC, STE D		BURNT BA	ARN 630	0000 1075	000 04/20/	1979	165	158	160	30	90	118
✓CE732957	CHESTNUT P I		CARPENT	ERS 629	9001 1079	999 06/22	/1979	93	86	88	45	68	84
✓ CE732937 ✓ CE733062	FREEDY, JO D	GREEN B	GREENBA	NK 63	0000 1080	000 10/19	/1979	132	127	127	30	32	65
	RITTENHOUS D		BURNT BA	ARN 63	0000 1075	000 10/22	/1979	70	64	65	30	18	45
✓ CE733091	PORTER, GE D		WINCH		5000 1070	000			•	•			
X CE733144			WINCH	64	0000 1070	000 09/27	/1979	143	20	20	5	25	143
✓ CE733161	GIBSON, GE D		EDGEWA	TFR 63	5000 1080	000 11/01	/1979	60	55	55	20	5	30
√ CE733164	TANNER, RO D		CARPEN		0000 1080	0000 11/12	2/1979	100	93	93	18	18	88
✓ CE733203	NE WASTE W I	`	MD RT 7	. —	5000 108		2/1980	138	133	133	5	75	80
✓ CE733216	PAYNE, BAR D		MD RT 7			0000							
	SUIT, JIMMY D	,	US RT 40				5/1980	220	59	59	3	70	150
✓ CE733290	CAMPBELL, D		RED TOA	·			8/1980	95	27		40	40	60
✓ CE733378	LEWIS, LIND D		CECIL A				2/1980	95	90	90	15	5	35
<i>እ</i> ፡ን / CE733480	VICKERS, EU D		US RT 40	_		6000							
X CE733502							6/1980	120	61	61	50	30	40
✓ CE733520	PORTER, GE D		WINCH F	_			8/1980		74	76	15	13	25
✓ CE733625	NEWSWANG D	CHESTN	CARPEN				G 1000		, ,				
X CE733646	STATE HIGH I	-	US 40			7000	3/1981	160	36	36	. 5	40	160
✓ CE733759	WARRINGTO D		RT 7	6	36000 107	1000 07/1	3/1961	100	30	, 30	J	, ,	

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PER OW	NER_N USE_FO	SUBDI RO	DAD_NA I	RID27 RID27 (O)	V_DATE	DEPTH_	DEPTH 'REEN_	1 /G_	RATE B	EFORE	DUR	ING
CE733921	CLARK, STA D	GREEN B			1080000							
✓CE733987	STANCILLS I: 1		MOUNTAIN	I HI 633000	1074000	09/01/1981	210	90	90	11	20	80
✓ CE810228	KNISELY EU D	GREENB	KIRK RD	628000	1080000	03/03/1982	49	43	44	20	12	21
✓CE810281	SINE SEWAR D		PRINCIPIO	FU 635000	1070000	04/28/1982	168	69	69	20	60	100
✓ CE810339	CARPENTER P	CARPEN	CARPENTE	ERS 625024	1079648	06/24/1982	90	71	80	50	23	84
✓ CE810345	BURTON W R D		CARPENTE	ERS 631000	1080000	07/23/1982	. 77	70	70	10	20	50
√CE810431	RAYSON GLE D		MOUNTAIN	N HI 629000	1075000	10/02/1982	120	115	115	15	20	120
✓CE810473	GRAY E G D		MOUNTAIN	N HI 635000	1074000	11/04/1982	2 225	80	80	3	70	225
X CE810708	MUSICK JOH D		JACKSON	ST 637000	1071000							
✓ CE810741	IRACKI DENN D		CHARTER	HIL 628000	1072000	09/03/1983	3 60	55	55	12	40	50
× CE810762	WOODS NOR D		WINCH RD	638000	1071000							
✓CE810773	BARBERO JA D		MOUNTAIN	N HI 630000	1077000	11/10/1983	3 175	158	170	10	98	150
✓CE810827	BARCLAY JR D		MD RT 7	635000	1070000	10/25/1983	3 85	21	21	15	3 5	50
√CE810955	OALS JAMES D		WINCH RE	639000	1071000	03/13/1984	4 125			30	35	80
✓CE810976	RAYSON E G D	POPLAR	POPLAR F	POIN 626000	1074000	04/02/1984	4 65	55	55	30	18	27
✓ CE811135	BRADLEY RO D	GREENB	KIRK RD	629000	1080000	11/05/198	4 86	73	81	25	4	42
√CE811223	PETERSON L D	POPLAR	POPLAR F	POIN 626000	1073000	09/25/198	4 63	. 56	56	15	23	32
√ CE811231	NEIDLEIN SO D		JACKSON	1 ST 638000	1070000	09/25/198	4 160	30	30	5	15	160
✓ CE811250	CRAIG WILLI D		' CHESTNU	JT P 627000	1080000	10/22/198	4 50	46	46	40	19	40
_√ CE811277	MCGUIRK RO D		JACKSON	ST 637000	1071000	11/28/198	4 250	49	49	11	30	190
✓ CE811340	ALEXANDER D		MOUNTAI	IN HI 630000	1076000	01/07/198	35 157	147	147	32	90	157

Monday, March 18, 2002

PFR (OWNER_N USE_FO	SUBDI R	ROAD NA	RID27 RID27 IO	N_DATE	_DEPTH _	DEPTH REEN	1 G	RATE BI	EFORE	DUK	RING
✓ CE81148			CARPENTE		1079999	05/02/1985		80	80	15	40	60
✓ CE81154			JACKSON	ST 637000	1071000	05/21/1985	200	75	75	4	50	100
X CE81156		CARPEN	N CARPENTI	ERS 625000	1079000				1			
✓CE81159	3 MARSHALLE D	POPLAR	R POPLAR P	POIN 626000	1073000	08/07/1985	105	95	95	10	56	66
✓CE8117	15 COOK KEITH D	GREENI	B WOODALL	_RD 630000	1080000	10/15/1985	116	106	111	30	38	94
✓ CE81180	05 HENDRICKS D	GREEN	B WOODALL	_RD 629000	1080000	10/18/1985	5 130	120	121	40	24	33
✓ CE8120	08 GROSS SIMO D	GREEN	B CLARK RE	630000	1079000	05/13/1986	146	136	136	40	38	120
✓ CE8120	34 LYON JERRY D		PRINCIPIO	O FU 636000	1071000	04/04/1986	300	70	70	6	43	225
✓ CE8120	79 MONTGOME D	EASTRI	ID MOUNTAI	N HI 630000	1077000	06/21/1980	6 124	119	119	12	100	105
√CE8121	20 MYER FLOYD D	GREEN	B WOODALI	L RD 630000	1080000	05/16/198	6 96	91	91	15	50	70
✓ CE8122	01 PETERSON L D	· POPLAI	R POPLAR I	PTR 626000	1073000	11/13/198	6 106	96	96	20	40	100
✓CE8125	07 MCGUIRK MI D		JACKSON	N ST 637000	1076000	10/23/198	6 275	60	60	3	42	160
√CE8125	82 MONTGOME D	EASTR	ID MOUNTAI	IN HI 632000	1077000	02/18/198	7 165	155	155	20	137	160
✓ CE8127	11 MILLER BOB D		GILLEY R	RD 635000	1070000	01/13/198	7 167	71	71	15	44	167
✓ CE8127	20 TATE ROGER D		GILLEY R	RD 636000	1070000	01/14/198	7 250	61	61	8	40	180
 ✓ CE8129	87 DIETER FRA D		JACKSON	N ST 637000	1070000	06/03/198	126	45	45	15	40	70
√CE8129	97 HUGHES RO D	GREEN	NB 84 KIRK F	RD 629000	1080000	07/23/198	89	79	84	20	2	40
✓ CE8138	320 FRONHEISE D	GREEN	NB GREEN B	3ANK 630000	1080000	08/07/198	38 138	128	128	20	48	90
1 €8804	187 ALBANESE J D	MINOR	R 6 ' MOUNTA	NN HI 632000	1076000	08/04/198	39 140	130	130	20	90	130
€E8806		GREEN	NB CARPEN	TER 629000	1078000	10/10/198	39 175	165	165	20	80	140
_ CE8 800	696 JONE MERVI D	GREE	NB CARPEN	ITER 629000	1078000	10/18/198	39 145	135	135	18	70	110



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PER O	WNER_N USE_FO	SUBDI ROA	D_NA	RID27 RID27 IO	N_DATE	_DEPTH _	DEPTH REEN	_1 /G_	RATE BI	FORE	DUR	ING
VCE880702	CHESTNUT P P		CARPENTE		1079999	10/20/1989		95	95	12	60	85
€£880722	YORK BUILDI T	v	WINCH RO	AD 645000	1071000	09/29/1989	150	77	77			
<i>©</i> €880730	BAKER GEO D	F	PRINCIPIO	FU 635000	1070000	08/30/1989	224	90	90	4	48	180
Le€880772	BIEBER WER D	F	POPLAR P	TR 629000	1076000	10/11/1989	110	100	100	10	50	100
CE881149	JONES MER D	GREEN B	GREEN BA	ANK 629000	1078000	05/02/1990	140	130	130	30	60	120
CE881228	LUSK MARVI D	GREENB (CLARK RD	630000	1079000	06/03/1990	195	185	185	25	95	120
€881284		GREENB (GREENBA	NK 629000	1078000	10/29/1990	156	146	151	20	55	100
ÆE881434	MCELYEA WI D	GREENB	CARPENT	ERS 630000	1080000	10/31/1990	128	115	123	30	31	100
√CE881819	GRAY EDWA D	1	MOUNTAII	N HI 634000	1075000	05/23/1991	300	86	86	2	50	210
√CE882179	SOTHALL JA D	GREENB	WOODALL	LRD 630000	1079000	01/14/1992	2 148	138	· 138	30	44	100
∠ E882206	SETTLEMYR D	GREENB	CLARK RE	630000	1080000	01/09/199	2 171	161	161	25	60	140
CE882359	JACKSON JA D		MT HILL	634000	1075000	05/01/199	2 600	110	110	1	95	470
€ 882367	GIFFORD RA D	GREENB	WOOD AL	LR 629000	1080000	09/17/199	2 129	119	119	20	40	90
/CE882439	ROGERS JO D	GREEN B	GREEN B	ANK 629000	1078000	08/05/199	2 127	117	117	10	.80	110
CE882440	BEAMAN RO D	GREEN B	GREEN B	ANK 639000	1078000	05/12/199	2 126	116	116	10	65	105
€E882600	CRAFT HAVE I	CRAFT H	CARPENT	TER 627629	1079346	08/27/199	2 77	67	67	10	45	70
CE920188	BAY COUNT D	GREENB	WOOD AL	LL R 630000	1080000	01/21/199	3 166	156	156	15	65	140
92029	RIDER RONA D	GREENB	CLARK RI	D 630000	1079000	04/25/199	3 178	168	168	15	45	100
CE92032	CONRAD TH D	GREENB '	WOODAL	L RD 630000	1080000	04/27/199	3 140	130	130	10	55	100
CE92032	2 HOLMAN WIN D	GREENB	GREENBA	ANK 629000	1079000	07/20/199	3 150	140	140	20	80	120
✓ _{CE92032}	8 MORRISON P D	GREENB	39 GREEI	NBA 630000	1079000	05/19/199	118	112	113	30	40	80

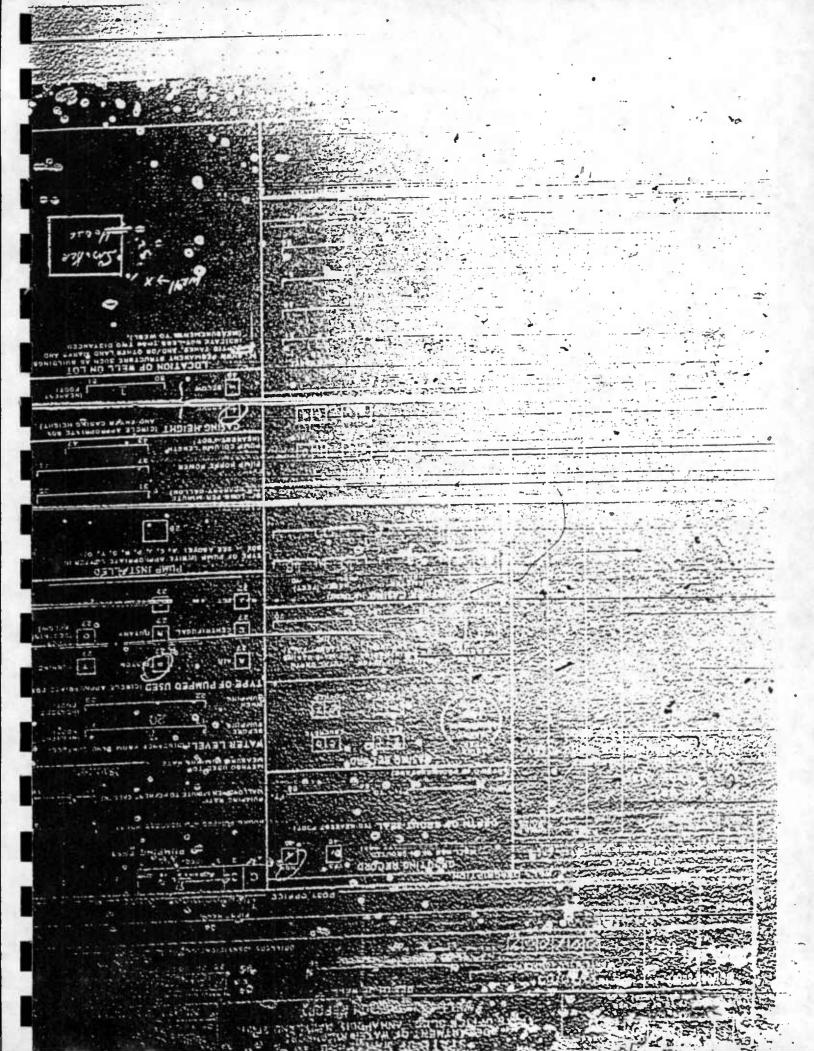
Monday, March 18, 2002

PER OW!	NER_N USE_FO	SUBDI RO	AD_NA RI	D27 RID27 ION	DATE	_DEPTH _	DEPTH 'REEN_	1 /G_	RATE BE	FORE	DUK	ING
E920334	GROSS BAR D	GREENB	64 WOODALL		1079000	05/20/1993	151	147	147	15	52	80
CE920416	GILBERT RIC D		JACKSON ST	638000	1070000	08/26/1993	200	40	40	8	41	165
✓ CE880815	BENDER CO D	GREENB	CLARK RD.	630000	1079000	10/04/1989	155	145	145	20	52	100
✓ CE881241	ROBINS JAM D	GREENB	WOODALL RI	629000	1080000	07/02/1990	120	110	110	15	60	95
£920414	RITTER JEFF D	GREEN B	GREEN BANK	629000	1080000	07/28/1993	1	80	80	20	6 0	80
NOE920441	RHODES RO D	GREENB	GREENBANK	630000	1079000	09/10/1993	132	127	127	25	30	60
CE942502				627472	1071771		•					
€E930380	BEDDOE MIC D	GREENB	WOODALL R	D 630000	1080000	07/25/1994	127	123	123	25	37	80
~€930296	BLACK HILL I		MCKINNEYT	O 626000	1078000	03/16/1994	241	231	231	30	162	230
LEE930094	FORSMAN B D		MOUNTAIN F	H 635000	1075000	09/23/1993	3 61	51	51	5	45	55
E930041	WOOD DAVI D	GREEN B	CLARK RD	630000	1077000	10/15/1993	3 185	175	175	15	85	160
CE930039	BROWN JOA D	GREENB	WOODALL R	D 631000	1080000	12/03/199	3 139	129	129	20	60	120
CE944326)			629001	1079999	01/18/200	1 100	80	80			
A	/											

Monday, March 18, 2002

STER SE MARYLAND DEGAR THENT OF THE RESOURCES ANNAPOLISA MARYLAND 21401 PERMIT TO DRILL WELL 本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本 PERMITANUMBER CE 700-0016 ISSUE DATE- 07/18/69 **** NO DA YR DRILLER SUED TO DRILLER-ID. NUMBER-DONALD S NEWNAM CECTLEON MARYLAND THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WELL TO BE OWNED BY-SHOKER . NORMAN INTERCOURSE PENNA 17 THIS WELL IS TO BE LOCATED IN CECIL COUNTY . LOT-SUBDIVISION, SECTION-GREENBANK NEAR THE TOWN OF CHARLESTOWN THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY. DETHIS WELL WILL REPLACE A WELL WHICH WILL BE ABANDONED & SEALED. ****SPECIAL CONDITIONS**** NONE. THIS PERMIT IS VALID UNTIL OT/LEVIO. A WELL COMPLETION CHEDELAR CENTENTALIHIN 30 DAYS FTER COMPLETION OF THE WELL PAUL W. MCKEE DIRECTOR, MARYLAND DEPARTMENT OF WATER RESOURCES

STATE OFFICE BEDGO ANAPONES, CONTLAND SHE APPLESTION PS 프로바다 30 1981, 9511 ENNA. LOCATION OF Y! K DRILLER INFORMATION -14 ---2 -2 mig. 30.1 Guil SOUNTY ... - 2 .3 ... (SEO. NO.) DANALOR C. MENT WIND ! HUNDER SUBOLVISION SECTION Charles Torons MILES FROM TOWN IENTERO IF IN TOWN & AXIMOM BUMP DOUR RATE TRACLORS HER WHIVE! WELL INFORMATION DIRECTION FROM TOWN B- 5 N &C HORTHEAST B E SOUTE NAMORTH THATE DAILY QUANTINE NEEDED CONLORS TO DAY 5 14 N W HORTHWEAT 0 . a south USE FOR WATER INTER APPROPRIATE OXI F PARMING ALRICULTURE HARTONTION ON WHICH BIDE OF ROAD N DRAW ASKETCH BELOW SHOWING LOCATION P WELL IN HELATION TO REAPEN ROADS AND DIFFERENT WITH NORTH IN THE DIRECTION OF THE LEADUR, OF DISTANCE FROM WELL TO MEAREST ROAD JUNCTION OR STREET, CHOLOTTO, IT THE EXETCH DISTANCE WAY BE APPROXIMATE, BUT WUST BE PROLECUE. APPROXMATE DEPTH OF WELL ENETHODIOF DRILLEING USED THE LE Chipales To REPLACEMENT OR DEEPENED WELLS CHACLE AND STATO BE FULLEDIN BY DRIVLERS FALTH-DEPARTMENT APPROVAL-INOT TO BE FILLED IN BY ONILLER) LATITUDE 3 D CONC TUDE O 7 6 C C WELL HEAD (FEET) 0 0 /4



STATE OF MARYLAND
DEPARTMENT OF WATER RESOURCES
STATE OFFICE BUILDING
ANNAPOLIS, MARYLAND 21401

PERMIT TO DRILL WELL

ISSUE DATE- 08/18/69

ISSUED TO DRILLER-

DRILLER
ID. NUMBER- 159

2

VERNON KIRK RD 1

PERRYVILLE MD 21903

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WELL

SLAYMAN, JAMES CARPENTER RD CHARLESTONN MD

THIS WELL IS TO BE LOCATED IN CECIL COUNTY,

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

THIS WELL WILL REPLACE A WELL WHICH WILL BE ABANDONED & SEALED.

****SPECIAL CONDITIONS****

NONE .

THIS PERMIT IS VALID UNTIL

08/18/70. A WELL COMPLETION

REPORT MUST BE SUBMITTED TO

THE DEPARTMENT WITHIN 30 DAYS

AFTER COMPLETION OF THE WELL

PAUL W. MCKEE DIRECTOR, MARYLAND DEPARTMENT OF WATER RESOURCES

STATE OF MARYLANS
STATE OFFICE BLDG., ANNAPOLIS, BAKYLAND THE APPLICATION FOR PERMIT TO DRILL WELL -3 (NEO. NO.) IN COLST 3-6 ON ALL CARDS! DATE RECCIVED DRILLER INFORMATION SUBDIVISION SEC TION NEAREST TOWN DATE OF APPLICATION [CLONST 11 1919 WELL INFORMATION DIRECTION FROM TOW MAXIMUM PUMPING HATE IGALTONS PER MINUTE) C members 13 At N HORTH AGE DAILY QUANTITY NEEDED (GALLONS HA DAY) 5 SOUTH USE FOR WATER LEINCLE APPROP OH WHICH SIDE OF TOAD OISTANCE PROMINGAD (ENTER DISTANCE AN. CINCLE APPROPRIATE (-)X) 34 ORAW A SECTION BELOW SHOWING LOCATION OF WELL IN PELATURE OF THE OFFICE OF THE CASE OF THE SECTION OF THE SECTI APPROXIMATE DEPTH OF WELL METHOD OF DRILLING USED WINCLE APARTMENTE METHOD! BORED IOR AVERAGOT JETTED DRIVEN CABLE ROYARY ROYARY carpenter Rd REPLACEMENT OR DEEPENED WELLS IGNECT AN harlestown NOT TO BE FILEED IN BY DRILLER W LONGITUDE 0

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STATE OF MARYLAND DEPARTMENT OF WATER RESOURCES STATE OFFICE BUILDING ANNAPOLIS. MARYLAND 21401

PERMIT TO DRILL WELL

ISSUE DATE- 09/21/70 MO DA YR 李在本本各本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本 * PERMIT NUMBER- CE-71-0069 " 李本水水水中安水水水水水水水水水水水水水水水水水水水水水水

ISSUED TO DRILLER-

DRILLER ID. NUMBER- 136

11.21

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D.

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DONALD S NEWNAM

GECILTON MD

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WELL TO BE OWNED BY-FRONHEISER, ROBERT

RD_1

PERRYVILLE MD CHESTNUT FCIN

THIS WELL IS TO BE EGGATED IN CECIL COUNTY, NEAR THE TOWN OF CHARLESTOWN

CONNERDIAL THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

THIS WELL WILL REPLACE A WELL WHICH WILL BE ABANDONED & SEALED.

****SPECIAL CONDITIONS***

THIS PERMIT IS SUBJECT TO THE FOLLOWING SPECIAL CONDITIONS-

L. LOCATE WELL AT LEAST 50 FT. FROM ANY SEWAGE DISPOSAL SYSTEM.

THE PERMIT IS VALID UNTIL 03/21/11 A NELLECOMPLETION REPORT MUST BE SUBMITTED TO THE DEPARTMENT WITHIN 30 DAYS ACTER COMPLETION OF THE WELL

GROUND WATER FRANCE CELLGAPC20

PAUL W. MCKEE DIRECTOR, MARYLAND DEPARTMENT OF WATER RESOURCES

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STATE OF MASYLAND STATE OFFICE PLOG. ANNAPOLIS MARY CAND STATE 9478 Frequence No. APPLICATION FOR PERMIT TO DRILL MELL IT IT'S NUMBER IN TO BE PUNCHED TYNO RELINED CHNEN TRANSEISER , ROBERT GORRED CHESTNUT POINT MARINE DRILLERUNFORMATION CECIL COUNTY SUBDIVISION SECTION 9/19/7: NEAREST TOWN MILES FROM TOWN ENTER O IF INTOWN! [WELL INFORMATION N E MORTHESAT IS NO ATT E SAST TO O O THE STATE OF THE STATE O N NORTH-N W HOSTHWAY USE FOR WATER COURT APPROPRIATE BOX 3- 300TH W WEST DISTANCE FREE HOAD TENTER DISTANCE I TO CINCLE APPROPRIATE BOX! DRAW A SKETCH SELOW SHOWING LOCATION OF WELL IN AFLATION TO HOAD.
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STATE OF HARYLAND DEPARTMENT OF WATER RESOURCES STATE OFFICE BUILDING ANNAPOLIS. MARYLAND 21401 PERMIT TO DRILL WELL

ISSUE DATE- 10/02/70 AY AC CH.

* PERMIT NUMBER- CE-71-0975 = 南部在各本部在本安全各次中中不公公公司有少十分 少年 日下日 一

ISSUED TO DRILLER-

DRILLER

DONALD S NEWNAM

10. NUMBER- 138

CECILTON NO

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WELL TO BE OWNED BY-

BLACKBURN, W RD NORTH EAST MD

THIS WELL IS TO BE LOCATED IN CECIL COUNTY, NEAR THE TOWN OF CHARLESTOWN

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

STHIS WELL WILL REPLACE A WELL WHICH WILL BE ABANDONED & SEALED.

****SPECIAL CONDITIONS***

THIS PERMIT IS SUBJECT TO THE FOLLOWING SPECIAL CONDITIONS-

1. LOCATE WELL AT LEAST 50 FT. FROM ANY SEWAGE DISPOSAL SYSTEM.

THIS PERMIT OF VALID UNTIL 04/02/71. A WELL-COMPLETION REPORT MUST BE SUBMITTED TO THE DEPARTMENT WITHIN 30 DAYS AFTER COMPLETION OF THE WELL

PAUL W. MCKEE DIRECTOR, MARYLAND DEPARTMENT OF WATER RESOURCES

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STATE OF MARYLAND DEPARTMENT OF WATER RESOURCES STATE OFFICE BUILDING ANNAPOLIS, MARYLAND 21401 PERMIT TO DRILL WELL ********** * PERMIT NUMBER- CE-71-0079 * TSSUE DATE- 10/06/70 MD DA YR DRILLER ISSUED TO DRILLER ID. NUMBER- 39 MAURICE BROWN NOTTINGHAM PA 19362 THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WELL

11.21 73

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TO BE OWNED BY-BOOCHELLI JOHN

NORTH EAST MO

THIS WELL IS TO BE LOCATED IN CECIL COUNTY, NEAR THE TOWN OF WORTH EAST

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

THIS WELL WILL DEEPEN ANCEXISTING HELL.

****SPECIAL CONDITIONS****

HIS PERMET IS SUBJECT TO THE FOLLOWING SPECIAL CONDITIONS-

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PAUL W. MCKEE
DIRECTOR, MARYLAND
DEPARTMENT OF WATER
RESOURCES

- 71-00 79 Basalt dark in color very hard. 72-100 t- 96-9

ISSUED TO DRILLER-

DRILLER 10. NUMBER- 112 14.5

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MARKE STATE OF THE
CHARLES HAMILTON JR

RD 1 BUX 230

HAVRE DE GRACE MD 21078

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WELL TO BE OWNED BY

DECANEY, WILLIAM W RD 1 NORTH EAST MD

THIS WELL IS TO BE LOCATED IN CECIL COUNTY.

JUBABEC

NEAR THE TOWN OF NORTH EAST

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

THIS WELL WILL NOT REPLACE ANOTHER WELL:

****SPECIAL CONDITIONS****

THIS PENALT TS SUBJECT TO THE FOLLOWING SPECIAL CONDITIONS-

LELOCATE WELL AT MEAST 50 FT. FROM ANY SEWAGE DISPOSAL SYSTEM.

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PAUL W. MCKEE
DIRECTOR, MARYLAND
DEPARTMENT OF HATER
RESOURCES

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71-00/01. yellen day 0-2 Sound 2-22 white day 22-30. sand 30-42 red clay 42-55 coarse gravel 55-59.

STATE OF MARYLAND DEPARTMENT OF WATER RESOURCES STATE OFFICE BUILDING ANNAPOLIS. MARYLAND 21401

PERMIT TO DRILL WELL

ISSUE DATE- 04/30/71 MO DA YR

教士本本中中中国南京大学中华中华大学大学大学工作工作 * PERMIT NUMBER- CE-71-0238 * ***********

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ISSUED TO DRILLER-

DRILLER ID. NUMBER- 112 PRESTON & HAMILTON RD 1 BOX 230 HAVRE DE GRACE MD 21078

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WELL TO BE OWNED BY-

RAPPOLD : EDWARD

NORTH-EAST HD

THIS WELLELS TO BE LOCATED IN CECIL COUNTY, SUBDIVISION: SECTION- , LOT-GREENBANK NEAR THE TOWN OF CHARLESTOWN

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

THIS WELL WILL REPLACE A WELL WHICH WILL BE ABANDONED & SEALED.

****SPECIAL CONDITIONS****

THIS PERMIT IS SUBJECT TO THE FOLLOWING SPECIAL CONDITIONS-

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PAUL W. MCKEE DIRECTOR , MARYLAND DEPARTMENT OF WATER RESOURCES

STATE OF MARYLAND DEPARTMENT OF WATER RESOURCES STATE OFFICE PUTLDING ANNAPOLIS. MARYLAND 21401

PERMIT TO DRILL WELL

ISSUE DATE- 05/25/71 MO DA YR

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ISSUED TO DRILLER-

SHORE WELL DRLRS INC

DRILLER 10. NJMRER- 188

CECILTON MD 21913

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WELL TO BE OWNED BY-

PEEL, WALLACE RD" 1 NEWARK DE

THIS RELL IS TO BE LOCATED IN CECIL COUNTY. CARPENTERS PT SUBDIVISION. SECTION-NEAR THE TOWN OF CHARLESTOWN

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

THIS WELL WILL REPLACE A WELL WHICH WILL BE ABANDONED & SEALED.

****SPECIAL CONDITIONS****

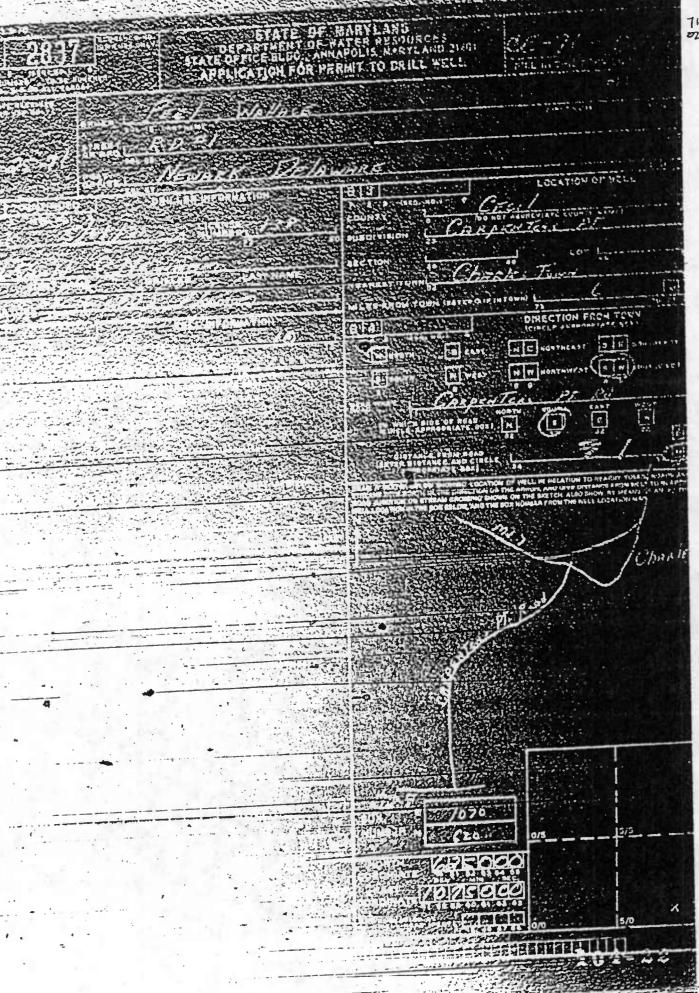
THIS PERMIT IS SUBJECT TO THE FOLLOWING SPECIAL CONDITIONS-

1. LOCATE HELL AT LEAST 50 FT. FROM ANY SEWAGE DISPOSAL SYSTEM.

THIS PERMIT IS VALID UNTIL 11/25/71. A WELL COMPLETION REPORT MUST BE SUBMITTED TO THE DEPARTMENT WITHIN 30 DAYS AFTER COMPLETION OF THE WELL

PAUL W. MCKEE DIRECTOR, MARYLAND DEPARTMENT OF WATER RESOURCES

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STATE OF MADYLAND
DEPARTMENT OF MATER RESOURCES
STATE OFFICE BUILDING
ANNAPOLIS: MARYLAND 23401

PERMIT TO DRILL WELL

ISSUE DATE- 06/25/71 MO DA YR ISSUED TO DRILLER-

SHORE WELL DRERS INC

ORILLER ID. NUMBER- 138

1

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CECILTON MD 21913

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WELL

SPENGLER, RICHARD RD 3 TOMAQUA PA

THIS WELL IS TO BE LOCATED IN CECIL COUNTY,
SUBDIVISION, SECTION-, LOTNEAR THE TOWN OF CHARLESTOWN

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

THIS WELL WILL REPLACE A WELL WHICH WILL BE ABANDUNED & SEALED.

****SPECIAL-CONDITIONS****

THIS PERMIT IS SUBJECT TO THE FOLLOWING SPECIAL CONDITIONS-

1. LOCATE WELL AT LEAST 50 FT. FROM ANY SEWAGE DISPOSAL SYSTEM.

THIS PERMIT IS VALID UNTIL

12/25/71. A WELL COMPLETION

PEPORT MUST BE SUBMITTED TO

THE DEPARTMENT WITHIN 30 DAYS

AFTER COMPLETION OF THE WELL

PAUL W. MCKEE DIRECTOR: MARYLAND DEPARTMENT OF WATER RESOURCES

ระมารู ยะการของเรื่องกับได้ พลังรั้ง Application for Piece of 71-0307 tento minimonia, sa se mantinas **采用 553** DRILLER INFORMATION 9 1 CONTINUED TINEWSER L senci vision CAT CAT MAME 15 -40 EVERACE DAILY QUANTITY NESDED TALLOS ME CAN USE FOR WATER KINGLE LAMOURIA/C EUC SECTANCE FACULADAT DRAW A SHETCH BELOW INCHING LOUNTER OF THE TERMS WITH HORTH IN THE DISCONLING THE TRANSPORT OF THE TERMS WOULD CHARLE THE TERMS WELL LOCATION OF THE BOX DELCH AND THE TERMS OF THE TERMS O APPROXIMATE DEPTH OF WELL JINEAREST INCH APPROXIMATE DIAMETER OF WELL METHOD OF DRILLING USED CHECK COMPRIATE METHOD AIR-PERCUSSION MOTARY INTERACTOR SOTARY) REPLACEMENT, OR DEEPENED WELLS HEIRELE APPROPRIATE BOX N WHILE WELL WHILE MOY REPEASE AN EXISTING WELL District of the Control of the Contr Czus House PROTETO BELFILLED IN BY DRILLER AWARDS CONCYT NUMBER : CORDINATE COUNTY NAME COUNTY NO.

STATE OF MARYLAND
DEPARTMENT OF WATER RESOURCES
STATE OFFICE BUILDING
ANNAPOLIS, MARYLAND 21401

PERMIT TO DRILL WELL

ISSUE DATE- 07/13/71

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ISSUED TO DRILLER-

SLAUCH, R W & SONS ID. NUMBERRD 1 BOX 11
OXFORD PA 19363

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL 4 HELL

ZERBE. EUGEN GREEN BANK RD CHARLESTOWN MD

THIS WELL IS TO BE LOCATED IN CECIL COUNTY,

SUBDIVISION, SECTION- , LOT
REAR THE TOWN OF CHARLESTOWN

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

Contraction of the state of the

THIS WELL KILL NOT REPLACE ANOTHER WELL.

****SPECIAL CONDITIONS****

THIS PERMIT IS SUBJECT TO THE FOLLOWING SPECIAL CONDITIONS-

THIS PERMIT IS VALID UNTIL

01/13/72. A WELL COMPLETION
REPORT MUST BE SUBMITTED TO

THE DEPARTMENT LITHIN 30 DAYS
AFTER COMPLETION OF THE WELL

PAUL W. MCKEE DIRECTOR, MARYLAND DEPARTMENT OF WATER RESOURCES

WM - Wad - 470 STATE OF HARYLAND DEPARTMENT OF WATER RESOURCES 72-0016 STATE OFFICE BLOG., ANNAPOLIS, MARTLING, BOOK WELL COMPLETION REPORT (350, NO.) M COLE. 3.0 ON ALL SANOS! DEPTH OF WELL 5-3 ITE NEAPERT FERT! P808171 081671 ZERBE STREET OR RED GREEN BANK KD. POST OFFICE CHARACE GROUTING RECORD WELL HAS BEEN CROUTED (CIRCLE APPROPRIATE BOX) STRTE THE KIND OF FCAMATIONS PENETRATED, THE RECOURSE DEPTH, THICHNESS AND IF WATER SCARING Y FUNCTION ! TYPE OF SEQUENCE MATERIAL (CIPCE BORT BENTONITE CLAY BIC HOUSE PHIMPED IN NO. NATURAL CLAT CLOSED BROWN CLAY TIGHT AROUND CASING ORANGE SALOY DEPTH OF GROUT SEAL (TO NEAR . T FOOT) 30 PROM TO THE PROM SUSPACE) WHITE CLAY 30 34 CASING RECORD TYPE OF PUMPED USES C 0 INSERT RED CLAT 34 45 APPROPRIATE SHITE CLAY 45 47 C CENTRIFUSAL R RUTON MAIN ROMINAL DIAMETER TOTAL DEPTH CASING TOF MAIN CASING OF MAIN CASING TYPE (NEARCST INCH) INCAREST FOOT) TRAY CLAS 47 64 J JET THE WHITE 64 SOF PUMP INSTAL

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STATE OF MARYLAND
DEPARTMENT OF WATER RESOURCES
STATE OFFICE BUILDING
ANNAPOLIS, MARYLAND 21401

PERMIT TO DRILL WELL

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ISSUE DATE- 08/24/71

* PERMIT NUMBER - CE-72-6085 t

ISSUED TO DRILLER-

ORILLER
ID. NUMBER- 118

PRESTON & HAMILTON RD 1 BOX 230 HAVRE DE GRACE MD 21078

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WELL TO BE OWNED BY-

CLEMENS+ HARDLD 2208 ARCH RD NORRISTONN PA 19401

THIS WELL IS TO BE LOCATED IN CECIL COUNTY,
GREENBANK
NEAR THE TOWN OF CHARLESTOWN

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

THIS WELL WILL REPLACE A WELL WHICH WILL BE A STANDBY.

****SPECIAL CONDITIONS****

THIS PERMIT IS SUBJECT TO THE FOLLOWING SPECIAL CONDITIONS-

1. LOCATE WELL AT LEAST 50 FT. FROM ANY SEWAGE DISPOSAL SYSTEM.

THIS PERMIT IS VALID UNTIL

02/24/72. A WELL COMPLETION

REPORT MUST BE SUBMITTED TO

THE DEPARTMENT WITHIN 30 DAYS

AFTER COMPLETION OF THE WELL

PAUL W. MCKEE
DIRECTOR. MARYLAND
DEPARTMENT OF WATER
RESOURCES

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STATE OF MARYLAND DEPARTMENT DE CHATER RESOURCES - STATE OFFICE BUILDING ANNAPOLIS - MARYLAND 21401

PERMIT TO DRILL WELL

ISSUE DATE- 09/07/71 NO DA YR

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TISSUED TO DRILLER-

DRILLER ID. NUMBER-BROWN . M E & SONS

RF0 2. NOTTINGHAM PA 19362

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WELL TO BE OWNED BY-PORTER. GEORGE

PERRYVILLE MD

THIS WELL IS TO BE LOCATED IN CECIL COUNTY, NEAR THE TOWN OF PERRYVILLE MD

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

THIS WELL WILL NOT REPLACE ANOTHER WELL.

****SPECIAL CONDITIONS****

THIS PERMIT IS SUBJECT TO THE FOLLOWING SPECIAL CONDITIONS-

1. LOCATE WELL-AT LEAST 50 FT. FROM ANY SEWAGE DISPOSAL SYSTEM.

THIS PERMIT IS VALID UNTIL 03/07/72. A WELL COMPLETION REPORT MUST BE SUBMITTED TO THE DEPARTMENT WITHIN 30 DAYS AFTER COMPLETION OF THE WELL

PAUL W. MCKEE DIRECTOR. MARYLAND DEPARTMENT OF WATER RESOURCES

STATE OF HASTLAND STATE OFFICE BURG. ANNAPOLIS HARMAND APPLICATION FOR PERMIT TO ONILL WILL 10 10 cg mg.) 72-0103 COMP USE OLD Popeyville: Md an FICE E 13.1 ··· S I CONTINUED . DRILLER INFORMATION 2 3 into. 40. COUNTY LICENSE SUBDIVINION י מסוד בשנ Mountan Berroun PIRST NAME DRILLER LAST NAME 8 2 N NORTH . R CLOT . WILL MISSELL (3 Javin W WEST IN IN MONTH ACT. OF FOR WAYER DISCLEASERS HAVE NOT FAREINE SCHOOL TONE INCOME CENTER DISTANCE PROMI ROAD ORANT A SKETCH BELOW SHAMING LOCATION OF FIELD IN HELATISME THE STREAMS WITH NORTH IN THE DIRECTION OF THE ARROW, AND USE SIZE OF MADE STREAMS CROSSING SHOWN ON THE SKETCH ALSO SHOW WITH LOCATION IN THE ARROW, AND THE BOX NUMBER PRODUCTION OF THE SECOND STREAMS OF MUST AVE STATE HEAL A POWATE PATER CONTRA or test DEMOXIMATE DIRECTION OF WELL 1 TORTO OF CERTIFICATION OF STREET OF IN PROCESSED TO BOLLEVENED MEDICAL COMPANY OF THE PROPERTY OF THE PROCESS OF THE PROPERTY OF T Control of the same of the control o The state of the s Alminicate meneralis OLOPP and the factor of the second s CONTRACTOR OF THE PARTY OF THE CORDINATE VISISO COUNTYNO

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STATE OF MARYLAND DEPARTMENT DE HATER RESOURCES STATE DEFICE BUILDING ANNAPOLIS MARYLAND 21401

PERMIT TO DRILL WELL

ISSUE DATE- 09/07/71 MO DA YR

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ISSUED TO DRILLER-

DRILLER ID. NUMBER-BROWN, ME & SONS

RFD 2 NOTTINGHAM PA 19362

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WELL TO-BE OWNED BY-

PURTER . GEDRGE

PERRYVILLE MD

THIS WELL IS TO BE LOCATED IN CECIL COUNTY. NEAR THE TOWN OF PERRYVILLE MD

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

THIS WELL WILL NOT REPLACE ANOTHER WELL.

-== ** SPECIAL CONDITIONS ****

THIS PERMIT IS SUBJECT TO THE FOLLOWING SPECIAL CONDITIONS-

1. LOCATE WELL AT LEAST 50 FT. FROM ANY SEWAGE DISPOSAL SYSTEM.

THIS PERMIT IS VALID UNTIL 03/07/72, A WELL COMPLETION REPORT MUST BE SUBMITTED TO THE DEPARTMENT WITHIN 30 DAYS AFTER COMPLETION OF THE WELL

PAUL W. MCKEE DIRECTOR, MARYLAND DEPARTMENT OF WATER RESOURCES

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STATE OF MARYLAND DEPARTMENT OF WETER RESOURCES STATE OFFICE SENS., MANAGUES, MARY LAND THAT C 15 6922 INV WELL COMPLETION REPORT 72-0104 DEPTH OF WALL CALE STERVE 012778 POPTOT LASE HAME STARET OR HTO GROUTING RECORD WELL HAS REEN INCUTED STATE THE KIND OF FORMATIONS PENETRATED, THEIR DAS ASSESSED FROM TO MAKE MANUFACTURE TO BE 75 RESIDENCE THE COMPLETE OF COMPLETE SHOP PERMEL O 62 X. MEASURE PUMPING DOTE DEPTH OF GROUT SEAL (TO N. MEST FOOT) WATER LEVEL LEGISLE GRAY GRAMITE 62 125 K THOM STATE OF THE STATE OF STA CASING RECORD

GASING RECORD

(1824)

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FIGURE OF THE CASING (IF USED)

FIGURE OF THE CASING (IF USED)

FIGURE OF THE CASING (IF USED) DRILLER WILL INSTACE DUSCE (CIRCLE APPROPRIATE \$04) CAPACITY CALLONS PEN MINUTE STORE HOLE SCREEN RECORD BTELL OF SAULE OPEN HO ----PUMP COLUMN LENGTH PL OT CASING HEIGHT CINCLE APPRILET (ANOVE - secow) EN CIRCLE APPROPRIATE BOXES OF HOUSE (NEAREST INCH) MENTIONING WELLS WILL SOLVE SO F TWENTE ONLY TO BE FILLESCING VICALEUM

STATE OF HARYLAND DEPARTMENT OF WATER RESOURCES STATE OFFICE BUILDING ANNAPOLIS - MARYLAND 21401

PERHIT TO DRILL WELL

-ISSUE DATE- 09/07/71 MO DA YR

京公开以外司官司中京公司在京大京大京京城市在京京市京市京 POPERMIT NUMBER- CE-72-0105 * 在布拉拉於各拉在水水水水水水水水水水水水水水水水水水水水水

ISSUED TO DRILLER-

DRILLER ID. NJYBER-

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BROWN. H E & SONS RFD 2 NOTTINGHAM PA 19352

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WELL TO BE ONNED BY-

PORTER. GEORGE

PERRYVILLE MD

THIS WELL IS TO BE LOCATED IN CECIL COUNTY. WEAR THE TOWN OF PERRYVILLE

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

THIS WELL WILL NOT REPLACE ANOTHER WELL.

****SPECIAL CONDITIONS****

THIS PERMIT IS SUBJECT TO THE FOLLOWING SPECIAL CONDITIONS-LE DOCATE WELL AT LEAST 50 FT. FROM ANY SEWAGE DISPOSAL SYSTEM.

THIS PERMIT IS VALID UNTIL ON/OT/F72: A HELL COMPLETION. REPORT: MUSTI BE SUBMITTED JOS THE DEPARTMENT NETHIN 30 DAYS APTER COMPLETION OF THE WELL

PAUL W. MCKEE DIRECTOR, MARYLAND DEPARTMENT OF WATER RESOURCES

STATE OF MARY LAND YOUR STATE OFFICE OLDS. ARRAPOLIS DARYLAND YOUR PERMIT TO DRIVE SELVEN VP-W-I-7-73 A STATE OF THE STA COURT B-S.ON ACT CONSELL 72-0105 BERT DEST NE 12 111 5 3. 3 B. 1 CONTINUED - ORILLES DECEMATION 2 3 1640. 40.1 2 .4 lace. so.1 . 6 COUNTY LICENSE CUBDIVISION . ZX 2002 MALE TOTAL TABLER LAST NAME DIRECTION FILE 8 4 N HORTH E EAST NOT HOTTHESE S SOUTH - W MEST Winch Road Printing Residentians TAICHELE APPROPRIATE BUX! N 37 DISTANCE FROM BOAD

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OFFICE AND CIRCLE

APPROPRIAT, BOS!

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OFFICE ASSESSMENT AND SISTANCE AND CIRCLE

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STATE OF HARYLAND DEPARTMENT OF WATER RESOURCES WELL COMPLETION REPORT CE-72-0105 ires number to to at runching. SEASEST FEBRU BRITAINS INCHTOPICATION SET . See 0127.72 727071 GEORGE PORTER C 3 GROUTING RECORD PUMFING TO DESCRIPTION OF POUND? SONO FGENVEL 0 20 PUMPING RATE ISAULUNG PER MINUTE YOU RESTOR THE COMMENT OF THE COMMENTS THE COMMENT CRY GRANITE 20 123 X DEPTH OF GROUT SEAL TTO HEART" 1. POOT WATER LEVEL: MISTANCE FROM 00 FOW EURFACET 00 CASING RECORD

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PLOT

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STATE OF WARYLAND DEPARTMENT OF WATER RESOURCES STATE OFFICE BUILDING ANNAPOLIS - MARYLAND 21401

PERMIT TO DRILL WELL

ISSUE DATE- 11/09/71.. MO DA YR

****** * PERMIT NUMBER- CE-72-3194 * 1

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ISSUED TO DRILLER-

DRILLER 10. NUMBER- 235 DELMARVA DRLG CO INC P 0 BOX 125 BRIDGEVILLE DE 19933

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WELL TO BE DWNED BY-

TRIBBLE, LEE R RD 1 PERRYVILLE MD

THIS WELL IS TO BE LOCATED IN CECIL COUNTY. NEAR THE TOWN OF PERRYVILLE

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

THIS WELL NILL NOT REPLACE ANOTHER WELL.

****SPECIAL CONDITIONS****

THIS PERMIT IS SUBJECT TO THE FOLLOWING SPECIAL CONDITIONS-

LOCATE WELL AT LEAST 50 FT. FROM ANY SEWAGE DISPOSAL SYSTEM.

REPORT MUST BE SUBMITTED TO THE DECARTMENT WETHEN 30 DAYS STORE AFTER COMPLETION OF THE WELL

PAUL W. MCKEE DIRECTOR MARYLAND DEPARTMENT OF WATER RESDURCES

No CR

STATE OF MARYLAND
DEPARTMENT OF MATER RESOURCES
STATE OFFICE BUILDING
ANNAPOLIS, MARYLAND 21401

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B

PERMIT TO DRILL WELL

ISSUE DATE- 05/03/72 MO .DA YR *******************

ISSUED TO DRILLER-

PRESTON & HAMILTON ID. NUMBER- 112
RD 1 BOX 230
HAVRE DE GRACE MD 21078

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WELL

SOMMERS, C E 567 NEWTOWN RD NEWTOWN SQ PA 19073

THIS WELL IS TO BE LOCATED IN CECIL COUNTY, NEAR THE TOWN OF CHARLESTOWN

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

THIS WELL WILL NOT REPLACE ANOTHER WELL.

****SPECIAL CONDITIONS****

THIS PERMIT IS SUBJECT TO THE FOLLOWING SPECIAL CONDITIONS-

L. LOCATE WELL AT LEAST 50 FT. FROM ANY SEWAGE DISPOSAL SYSTEM.

THIS PERMIT IS VALID UNTIL

11/03/72. A WELL COMPLETION

REPORT MUST BE SUBMITTED TO

THE DEPARTMENT WITHIN 30 DAYS

AFTER COMPLETION OF THE WELL

PAUL W. MCKEE
DIRECTOR, MARYLAND
DEPARTMENT OF WATER
RESOURCES

STATE OF HARYLAND

STATE OF HARYLAND

DEPARTMENT OF MATER SCIOUSES

STATE OFFICE BLDG. ANNAFOLD, MARYLAND 21494 APPLICATION FOR PERMIT TO OFFICE WELL HIS HUMEZOUS TWO ALL CANNO MATE ARTEIVED 72 0354 450378 STREET 8 3 COUNTY SUBDIVISION CHAS HAMILTON, VX SECTION WEEL INFORMATION B 4 N M Superinger N HORTH ORTHORN DATES OF THE THE STATE OF THE PART OF CEPHOLOGICAL CHARLES OF THE CONTROL THE CANDOROLOUS TO SELECT THE SE SHEW THE PORT THE SAVEDTAPEREAD TERROTAL TERROTAGE 5-x 3. .. KOPROXIVATE DIXPETEL OF THE CONTROL WE THORSE SONICH HOST SEE THE CONTROL OF THE SECOND rentrantal national design of the state of t THE TOTAL STATE OF THE STATE OF GREENBENK SENDICIDIO DE DELIZADO TRACES DE CAMBRIANTO DE CONTRACTORIO. No de la companya de The recinculation of the state Department of the property of the contraction of th TO SEE SHE DISTY OF THE LOCK OF ENERGIE DE L'ADDEUT L'AUTOMANAGE SE EN

STATE OF MARYLAND
DEPARTMENT OF MATER RESOURCES
STATE OFFICE BADE, ANNAPOLIS, MARYLAND 21101 CLASS ST. TWR - Was - 9/21 Fig. B. St. St. SEQUENCE HO. 18:4 72-0354 WELL COMPLETION REPORT CTHIS HUMBER IS TO BE PUNC IN COLS. 3-5 ON ALL CARDS) DEPTH OF WELL STIPATE BECEIVED 7.5 NEARCHT FROTE 640273 BALLICPA INCHTIFICATION AL There trees on trion Rd POST OFFICE TYPE OPERATION BENTONITE CLAV B C CISI WELL-LOD ---PRAPRIS YEAT STATE THE KIND OF FORMATIONS PENETRATED, THEIR HOURS HUMBLE STORE THE CONTRACTOR PASSESSEEDE DESCRIBEION PAGE MALCONS ME MOUNTS TO ME SHE AT THE DEPTH OF GROUT SEAL ITO HEAREST PROTE WATER LEVEL DISTANCE Sources 55 CASING RECORD PUNTHE (F T) CO TYPE OF PUMPED USED (POR PULIFIED TEST) SUMENETE A AIR P L TALOT C CENTRIFHEAL R AVIANV PLABTIC MAIN NOMINAL DIAMETER TOTAL DEFTH CASING TOP DIAIN) CASING OF MAIN CASING OF MAIN CASING TYPE (HEAREST OUT) 200 - 21 - 63 - - 64 - 67 PUMP INSTALLED OTHER CASING ((FUSED) TYPE OF PUMP (WRITE APPROPRIATE LE DRILLER WILL INSTALL PHMP (EIRCLE APPROPRIATE BOX) CAPACITY! GALLONS FER MINUTE SATER THOUSE SCREEN RECORD W T T T S N T H O PUMP HORSE POWER OR SKONE OPEN HOLE PUMP COLUMN LENGTH (NEAREST FOOT) CASING HEIGHT (CIRCLE APPROPRIATE DAY AND ENTER CASING TO (1911) P C CO T (+ PROVE LAND SUNFACE 1 10011 S / Z Z 20 SHOW PERMANENT STRUCTURE SUCH AS BUILDING
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MOIGATE HOT LESS THAN TWO DISTANCES
MEASUREMENTS TO WELL). TIME WINESCHARING

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EMERGENCY NO. (H'ony) -STATE OF MARYLAND DEPARTMENT OF WATER RESOURCES 2 73 0063 STATE OFFICE BLDG, ANNAPOLIS, MARYLAND 21401 04988 APPLICATION FOR PERMIT TO DRILL WELL 2 3 (360, NO.) 0 415 NUMBER IN 13 95 HUNCHED COLS. 3-5 ON ALL CANDS) TATE MECETVED B:3 DRILLER INFORMATION CONTINUED COUNTY LICENSE NUMBER SUBDIVISION SECTION IGNATURE DIRECTION FROM TOWN WELL INFORMATION (seq. No.) MAXIMUM PUMPING RATE GALLONS PER N HORTH E CAST AVERAGE DAILY QUANTITY NEEDED (GALLONS PER DAY) 5 SOUTH USE FOR WATER (CIRCLE APPROPRIATE BOX) O DOMESTIC, HOME (SINGLE OR COUBLE HOUSEHOLD UNIT ONLY) RPAHIER ! F FARMING, AGRICULTURE, IRRIGATION INQUSTRIAL , COMMERCIAL, STATE AND FEDERAL GOVERNMENT. OISTANCE FROM ROAD (ENTER DISTANCE AND CIRCLE APPROPRIATE BOX) DRAW A SKETCH SELOW SHOWING LOCATION OF WILL IN RELATION OF VICEASING ROADS AND STREAMS WITH NORTH IN THE DIRECTION OF THE ARMOUNT AND STREAM SELOWING SHOWN TANCE FROM WELL TO NEAREST ROAD JUNCTION OR STREAM SELOWING SHOWN STRETCH, ALSO SHOW, ST MEANS OF AN "X", THE WELL LOCATION IN THE BOX NUMBER FROM THE WELL LOCATION MAD. MUNICIPAL WATER SUPPLY APPROXIMATE DEPTH OF WELL Charles Tours PPROXIMATE DIAMETER OF WELL METHOD OF DRILLING USED (CIRCLE APPROPRIATE METHOD) BOREO (OR AUGEREO) JETTEO DRIVEN ROTARY (HYORAULIG ROTARY) AIR-PERCUSSION 10-37 AIR-ROTARY DRIVE-POINT REVERSE-ROTARY A EABLE OTHER (DESCRIBE) REPLACEMENT OR DEEPENED WELLS (CIRCLE APPROPRIATE BOX) N THIS WELL WILL NOT REPLACE: AN EXISTING WELL THE WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED THIS WELL WILL OCEPEN AN EXISTING WELL
PERMIT HUMBER OF WELL TO SE REPLACED OR DEEPEN D H .---NOT TO BE FILLED IN BY DRILLER GWH USE ONLY 1680 BOX NUMBER 620 635000 B 4 RECONTINUES THEALTH DEPARTMENT APPROVAL THE ZIE BRICKSED .. NO. 1 10 B. C. EAST COORDINATE / 080000 ATABLE "SALT" 50 8 0 8 7 2

STATE OF MARYLAND DEPARTMENT OF WATER RESOURCES STATE OFFICE BUILDING

ARNAPOLIS, PARYLAND 21401

PERMIT TO CRILL WELL

ISSUE CATE- 09/15/72 MO DA YE # PERMIT NUMBER- CF-73-0116 # 泰安安全大学大学大学大学 化安全 化安全 化安全 化电子 化二丁二

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ISSUED TO DRILLER-

DRILLER ID. NUMBER-BROWN, M E & SCNS

RED 2 NOTTINGHAM PA 19362

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WELL TO BE CHNED BY-

PORTER, GEORGE

PERRYVILLE MO

THIS WELL IS TO BE LOCATED IN CECTL COUNTY. NEAR THE TOWN OF PERRYVILLE MD

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

THIS WELL WILL NOT REPLACE ANOTHER WELL.

****SPECIAL CONDITIONS***

THIS PERMIT IS SUBJECT TO THE FOLLOWING SPECIAL CONDITIONS-

1. LECATE WELL AT LEAST 50 FT. FROM ANY SEWAGE DISPOSAL SYSTEM.

THIS PERMIT IS VALID UNTIL -03/15/73. A WELL COMPLETION REPORT MUST BE SUBMITTED TO THE DEPARTMENT WITHIN 30 DAYS AFTER COMPLETION OF THE WELL

PAUL W. MCKEE DIRECTOR, MARYLAND DEPARTMENT OF WATER RESOURCES

STATE OF MARYLAND STATE OFFICE BLDG., ANNAPOLIS, MARTLAND VIS 73-0116 WELL COMPLETION REPORT DEPTH OF WELL EET OR RED ... GROUTING RECORD WE OF APPRICA CHIC. THE RIND OF PERSONALISM SENETRALIES, THEIR
OLD IN THICKNESS AND IF WATER BLASING
DESCRIPTION
WATER
WATER DESCRIBTION [4 BLARING LUSE ADDITIONAL SHEETS FREM 5 . NO. OF POJ40-6 DEPTH OF GROUT SEAL ITO NEARL CENTER OIL CHOM SURFACEL 54 CASING RECORD C 0 TYPE OF PUMPED USED 1931 # 5 CDDE 4 . BELOW CT PL PLASTIC NOMINAL DIAMETER TOP (MAIN) CASING INEAPEST INCH! OF WAIN SASING CASING PUMP INSTALLED 63 64 THE OF STATE AND THE AREA BELLS OTHER CASING OF USED DEPTH FEET TO THE TELEFORM SHIFTER WIFT MALET AND EAGACITY! SALSON DED 414 TT SCREEN RECORD SCHEEN TYPE H 0 5 7 B H INSERT APPROPRIATE CR BROWS MUMM EDLINM LIMET -POOR OT CASING HEIGHT BELOW PL 2 (SEQ. NO.) DEPTH INEAR LOCATION OF WELL ON LOT SHOW PERMANNES STRUCTURE SUCH AS S. SERVIC TANES. AND OR OTHER LAND MARKET INDICATE NOT LESS THAN TWO DISTANCES IMPORTANCES TO WELL! EACH CIRCLE APPROPRIATE BOXES A WELL WAS ABANDONED AND SEALED WHEN THIS TATE! E ELECTRIC LOS OSTAINES I MEREBY CERTIFY THAT I HAVE COMPLIED WITH ALL CONDITIONS STATED ON THE ABOVE-CAPTIONED "PERMIT TO ORILL WELL", AND THAT INFORMATION CONTAINED IN THIS REPORT IS TRUE, ACCURATE, AND COMPLETE TO THE BEST OF MT "NOWLEGGE, INFORMATION AND DELLERS MALE. flousE IF WELL DRILLED WAS A FLOWING WELL CIRCLE BOX AURICE BROWN 1E.8.0.5.) 72 STHER DATA

STATE OF HARYLAND DEPARTMENT OF WATER RESOURCES STATE OFFICE BUILDING ANNAPOLIS, MARYLAND 21401

PERMIT TO DRILL WELL.

ISSUE DATE- 04/19/73 MG DA YR

本方本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本 * PERMIT NUMBER- CH-73-3366 *

ISSUED TO DRILLER-

LEONARD WELL DRLG BOX 742 BUSH STREET WHITE MARSH MD 21162 DRILLEP ID. NUMBER-

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B

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A HELL TO BE OWNED BY-

VERDEL CONSTRUCTION 7307 HARFORD RD 21234 BALTIMORE MD

THIS WELL IS TO BE LOCATED IN CECIL COUNTY, NEAR THE TOWN OF BELVIDERE

THE WATER IS TO BE USED FOR A COMMERCIAL/INDUSTRIAL SUPPLY.

THIS WELL WILL NOT REPLACE ANOTHER WELL.

****SPECIAL CONDITIONS****

THIS PERMIT IS SUBJECT TO THE FOLLOWING SPECIAL CONDITIONS-

- 1. DEPARTMENT REPRESENTATIVES SHALL HAVE ACCESS TO THE WELL TO CONDUCT SCIENTIFIC TESTS AND MEASUREMENTS DURING DRILLING.
- 2. LOCATE WELL AT LEAST 50 FT. FROM ANY SEWAGE DISPOSAL SYSTEM.

THIS PERMIT IS VALID UNTIL 10/19/73. A WELL COMPLETION REPORT MUST BE SUBMITTED TO THE DEPARTMENT WITHIN 30 DAYS AFTER COMPLETION OF THE WELL

GROUNDWATER APPROPRIATION PERMIT NUMBER- CE73GAP015

PAUL W. MCKEE DIRECTOR. MARYLAND DEPARTMENT OF WATER RESOURCES

EMERGENCY NO. (11 ony)	
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OATE RECEIVED COUNTY OWNER COLIN LANT MANE	Enstruction Page 1
POST BALTIMORE SHIPS COL 36 POST BALTIMORE OF FICE COL 57	Md 2/2/14 B.3. LOCATORIOS SEE
DATE 4/10/73 NUMBER 15	SABOIMISION
SIGNATURE WM. Leaved	MEAREST TOWN TOWN THIS SALE TOWN
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USE FOR WATER (CIRCLE APPROPRIATE BOX) D DOMESTIC, HOME (SINGLE OF DOUBLE HOUSEHOLD UNIT ONLY) F PARMING, AGRICULTURE, IRRIGATION	WEAR NAT WORTHERSTONN EST
MUNICIPAL WATER SUPPLY MUST HAVE STATE HEALTH DEPT. APPROVAL	DISTANCE NOM BOAD FENTER DISTANCE AND CREEK APPROPRIATE REFE 34
P PRIVATE WATER COMPANY	ROADS AND STREAMS WITH THE PRAST SENTE ON B THESE STREET OF STREET STREE
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S THIS WELL WILL DEEPEN AN EXISTING WELL D THIS WELL WILL DEEPEN AN EXISTING WELL PENMIT HUMBER OF WELL TO BE REPLACED OR DEEPENED (IF AVAILABLE) 52	ES X
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B 4 CONTINUES HEALTH DEPARTMENT APPROVAL	NORTH COORDINATE SO 51 92 93 54 55
B 5 SET SEED NO. 1- 20 SEED NO. 1- 2	WRUSE ONLY)

STATE OF MARYLAND WATER RESOURCES ADMINISTRATION TAMES STATE OFFICE BEDG , ANNAPOLIS ME WELL COMPLETION REPORT SEPTIMBLE MEET 5/22/73 053073 CE-73-0366 153332 Construct! Verdell Harford 7307 Sand + Gravel Grey Clay Gravel Gray Clay Clay+Gravel 63 66 66 70 Grey Clay Gravel + Sand 70 85 Gray Clay+ Sand 85 95 95 110 V Sand OTHER CASING ... SCREEN RECORD CARLLY TARE Best College 2 T 27414 CASING HEIGH BELOW CIRCLE APPROPRIATE BOXES TEST WELL CONVERTED TO PRODUCTION WELL W. Frank War Lechard

STATE OF MARYLAND
DEPARTMENT OF WATER RESOURCES
STATE OFFICE BUILDING
ANNAPOLIS, MARYLAND 21401

PERMIT TO OFFILE WELL

ISSUE DATE- CE/18/73

4 PERMIT NUMBER - CE-73-0556 =

ISSUED TO DRILLER-

IC - VENSER-

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DIFILIPPC, C JR 5 BRINTON WAY, GLEN KYLE NEWARK DE 19711

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO SETTLE I WELL TO BE OWNED BY-

MARKUS, WALTER RD 3 BX 3C2 NORTH EAST MC 219C1

THIS WELL IS TO BE LOCATED IN CECIL CCUNTY, NEAR THE TOWN OF NORTH EAST

THE WATER IS TO BE USED FOR A CONESTIC SUPPLY.

THIS WELL WILL NOT REPLACE ANOTHER WELL.

****SPECIAL CENDITIONS***

THIS PERMIT IS SUBJECT TO THE FOLLOWING SPECIAL CONCITIONS-

1. LGCATE WELL AT LEAST 50 FT. FFCM ANY SEWAGE CISPESAL SYSTEM.

THIS FERMIT IS VALID UNTIL
G2/18/74. A WELL COMPLETION
REPORT MUST BE SUBMITTED TO
THE CEPARTMENT WITHIN 30 CAYS
AFTER COMPLETION OF THE WELL

PAUL W. MCKEE CIRECTCR. MARYLAND CEPARIMENT OF WATER RESCLACES

STATE OF MERYLARD
WATER RESOURCES AUMINISTRACE
TAMES STATE GERICLE STATE 011 8917 METE COMPLICATION NUMBER 73-0556 101073 Hjarkus H.J.3. DEPTH-OF GROUP TEAL CAMING BETORE SCREEN RECORD DEPTH NEAPER AND LOCATION OF WE CIRCLE APPROPRIATE BOXES I HEREAY CERTIFY THAT I HAVE COMPLIED WITH ALL CONDITIONS STATED ON THE ABOVE-CAPTIONED "SEMIST TO DRILL "VELL", AND THAT INFORMATION CONTAINED IN THIS REPORT IS TRUE, ACCURATE, AND COMPLETE TO THE REST OF MY RHOWLEDGE, INFORMATION AND SELIEF. P TEST WELL CONVERTED TO PRODUCTION WELL SPANCE PAC-GWR HSE DNLY INOT TO BL FIGGET IN BY CONTANTINE OFFILEPO SIGNATURE Contactini D' July ps

STATE OF MARYLAND DEPARTMENT OF NATURAL RESOURCES WATER RESOURCES ADMINISTRATION TAWES OFFICE BUILDING, ANNAPOLIS, MARYLAND

PERMIT TO DRILL WELL

ISSUE DATE- ILL13/73 NO DA YR

PERMIT NUMBER- CE-79-0659

ISSUED TO DRILLER-

DRILLER ID. MUMBER- 119

KIRK, VERNON W RFD 1 PERRYVILLE MD 21903

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WELL TO BE OWNED BY-

SPADAFORA, JAMES H 538 BUTTONWOOD ST . READING PA 19601

THIS WELL IS TO BE LOCATED IN CECIL COUNTY, NEAR THE TOWN OF CHARLESTOWN

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

THIS WELL WILL NOT REPLACE ANOTHER WELL.

1. LOCATE WELL AT LEAST 50 FT. FROM ANY SEWAGE DISPOSAL SYSTEM!

THE ABOVE CONDITIONS FROM CODES ON APPLICATION

THIS GERNIT IS VALTO UNTIL 057(15)74 A WELL HOMPRETION REPORT MUST BE SUBALTIED TO THE DEPARTMENT WITHIN 30 DAYS AFTER COMPLETION OF THE WELL

HERBERT M. SACHS DIRECTOR, MARYLAND WATER RESOURCES ADMINISTRATION

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	STATE OF WATER	ARYLARS			
	STATE OFFICE BLDG., ANNAPOLIS, MARYLAND 214				
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	LICENSE 159	SUBDIVISION			
	DATE	23			
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33	FIRST NAME	NEAREST TOWN 52			
	SIGNATURE Vernon W. Frik	MILES FROM TOWN SENTER OF THE PLANTING			
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	FARMING, AGRICULTURE, IRRIGATION	ON WHICH SIDE OF POAD (CHICLE APPROPRIATE SOX)			
E. 7.	INDUSTRIAL COMMERCIAL, STATE AND PEDERAL GOVERNMENT.	12			
	1 NOUSTRIAL COMMERCIAL, STATE	SISTANCE FROM HOAD CONT. (DISTANCE AND CIRCLE 34			
35	M MUNICIPAL WATER SUPPLY	A STETCH BELOW SHOWING LOCATION OF WELL IN MELATING			
	P PRIVATE WATER COMPANY	TANCE FROM WELL TO HEAREST BOAD JUNCTION OF STREAM			
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Stoubict. Pd.	STATE OF MARYLAND	
CTC 6449	WATER RESOURCES ADMINISTRATION STATE OFFICE BLDG., AMAPOLIS, NO THE	91 (1944) 19 (1979) 19 (1979)
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100 V	AB PROPERTY SUBFACE	A+14
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STATE OF MARYLAND DEPARTMENT OF NATURAL RESOURCES WATER RESOURCES ADMINISTRATION TAWES OFFICE BUILDING, ANNAPOLIS, MARYLAND

PERMIT TO DRILL WELL

T\$50E DATE- 11/19/73 MC DA YR

PERMIT NUMBER - DE-74-0664

ISSUED TO DRILLER-

PRESTON & HAMILTON 13. 408 SURF 112 1 RD 1 BCX 230 HAVRE DE GRACE MO 21076

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO USILL A MELL TO BE OWNED BY-

ROARK, PATTON H RC 1 PERRYVILLE MO

THIS WELL IS TO BE LOCATED IN CECIL COUNTY, NEAR THE TOWN OF CHARLESTOWN

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

THIS WELL WILL NOT REPLACE ANOTHER WELL.

SPECIAL CONDITIONS

POLLOWING CONDITIONS WILL CAUSE THIS PERMIT TO BECOME NULL AND VOID

1. LOCATE WELL AT LEAST 50 FT. FROM ANY SEWAGE DISPUSAL SYSTEM.

THE ABOVE CONDITIONS FROM CODES ON APPLICATION

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HERBERT M. SACHS DIRECTOR, MARYLAND WATER RESOURCES ADMINISTRATION

STATE OF MARYLAND DEPARTMENT OF NATURAL RESOURCES WATER RESOURCES ADMINISTRATION TAWES OFFICE BUILDING, ANNAPOLIS, MARYLAND

PERMIT TO DRILL WELL

TSSUE :041E- 02/11/74 NO DA YR

PERMIT NUMBER- CE-73-07-1

ISSUED TO DRILLER-

DRILLER ID. NUVREK-

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BROWN , M E & SONS RFD 2

NOTT INGHAM PA 19362

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WELL TO BE OWNED BY PORTER, GEORGE

PERRYVILLE MD

THIS WELL IS TO BE LOCATED IN CECIL COUNTY, NEAR THE TOWN OF JACKSON

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

THIS WELL WILL NOT REPLACE ANOTHER WELL.

FAILURE TO COMPLY WITH THE FOLLOWING CONDITIONS WILL CAUSE THIS FERMIT TO BECOME NULL AND VOID SPECIAL CONDITIONS

L. NOTTEY COUNTY HEALTH DEPT. 24 HOURS SCHORE GROUTING WELL. Z. LOCATE WELL AT LEAST 50 FT. FROM ANY SEWAGE DISPOSAL SYSTEM.

THE ABOVE CONDITIONS FROM CODES ON APPLICATION

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HERBERT M. SACHS DIRECTOR, MARYLAND WATER RESDURCES ADMINISTRATION

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PERMIT TO DRILL WELL

1550E DATE- 04/25/74 NO DA YR PERMIT NUMBER- CE-TO-082Z

ISSUED TO DRILLER-

LXILLER IU. NUMARK-

KIRK, VERNON S RFD 1 PERRYVILLE NO 21903

THE ABOYE NAMED OR LITER IS HEREBY AUTHORIZED TO DRILL A NELL TO BE UNKED BY-

DAVIS GLAUDER GREENSPING PO CHARLESTOWN HO

THIS WEEL IS TO BE LOCATED IN CECIL COUNTY, NEAR THE TUNN OF CHARLESTOWN

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

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SPECIAL CONDITIONS

TO THE PERENT SOLET FROM ANY SENAGE DISPOSAL SYSTEM

ABOUT TONDLE UNS FON CODES ON APPLICATION

PERCENTAGE CONTRACTOR

HERBERT M. TSACHS

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PERMIT TO DRILL WELL

155UE/DATE- 03/11/75 MO-DA YR SPERMIT NUMBER- CS-73-1141

ISSUED TO DRILLER-

DRILLER 10. NUMBER-

KIRK, VERNON W RED 1 PERRYVILLE MD 21903

THE ABOVE NAMED DRILLER IS HERERY AUTHORIZED TO DRILL & WELL STO BE ORNED BY

SLAYMAN, JAMES

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SSUE DATE- 04/21/15 SO DE YE

PERMIT FURBER- CE-73-:158

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ISSUED TO DRILLER

SHORE WELL DELES INC

DRILLES 138 ID. NUMBER-

CECILTON-AD 21913

THE ABOVE RABED DRILLER IS BEREBY AUTHORIZED TO DBILL A WELL TO BE OVERD BY

WOLL, CLAIR W PLEETWOOD PA 19522

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PERMIT TO DRILL WELL

15SUE DATE 05/28/75 NO DA YE

PERMIT NUMBER- CE-75-113

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ID. NUMBER-

KIRK, VERNON W RFD 1

PERRYVILLE MD 21903

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WELL TO BE OWNED BY

ARMSTRONG KARREN BX-2918. PERRYYILLE HO

THIS HELL IS TO BE EDGATED IN CECIL COUNTY, NEAR THE TOWN OF CHARLESTOWN

THE HATER IS TO BE USED FOR A DOMESTIC SUPPLY.

THES HELL WILLENGT REPLACE ANOTHER WELLS

ECIAL CONDITIONS

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THE ABOVE CONDITIONS ERG. CODES ON APPLICATION

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PERMIT TO DRILL WELL

ISSUE DATE 07/20175 MU DA YR PERMIT NUMBER- CE-T3-1263

ISSUED TO DRILLER-

DRILLER ID. NUMBER- 159

KIRK YERNON W RFD 1: PERRYVILLE MD 21903

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WELL TO BE OWNED BY

RODEHEAVER. HUEY CANVAS BACK LA CHARLESTOWN MD

THIS WELL IS TO BE LOCATED IN CECIL COUNTY. NEAR THE TOWN OF CHARLESTOWN

THE WATER OF TO BE USED FOR A DOMESTIC SUPPLY.

THIS WELL WILL REPLACE A WELL WHICH WILL BE ABANDONED & SEALED.

SPECIAL CONDITIONS Prior Toronto Tractal Action of Control

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THE ABOVE CONDITIONS FROM CODES ON APPLICATION

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MERBERT ACHS
DIRECTOR MARYLAND
NATERORESUURCES DH NISTRATION,

ENTERED LA 4 DEPARTMENT OF NATURAL RESOURCES WATER RESOURCES ADMINISTRATION TAWES OFFICE BUILDING, ANNAPOLIS, MARYLAND PERMIT TO DRILL WELL PERMIT NUMBER- CE-73-1274 SSUE DATE - 01/30/75 DRILLER ID. NUMBER-SHORE HELL DRIRS INC CECILION MD 21913 THE ABOVE NAMED DRIELER IS HEREBY AUTHORIZED TO DRILL A WELL GLENN, GEORGE 605 RIVERVIEW RD CLAYMONT DE THIS WELL IS TO BE LOCATED IN CECIL COUNTY, NEAR THE TOWN OF CHARLESTOWN THE HATER ILS TO BE USED FOR A DOMESTIC SUPPLY. THES WELL WILL NOT REPLACE ANOTHER WELL. SPEC AL CONDITIONS EGGATE WELL AT LEAST 50 FT. FROM ANY SEWAGE DISPOSAL SYSTEMS SHE ABOVE EGNOTITIONS FROM CODES ON APPLICATION Chaptan Called Constitution Con HERBER TEMS SACHS DIRECTOR PHARYLAND MATER LE SUURCES

STATE OF MARYLAND

ISSUED TO DRILLER

TO BE OWNED BY

PERMIT TO DRILL WELL

ISSUE DATE 10/03/75 MO-DA YR

PERMIT NUMBER- CE-73-1339

ISSUED TO DRILLER-

SHORE WELL DRERS INC

ID. NUMBER-

CECILTON MD 21913

THE ABOVE NAMED OR ILLER IS HEREBY AUTHORIZED TO DRILL A WELL TO BE OWNED BY BETTER HOMES INC

479 ROBERTSHAY ABERDEEN MD

THES WELL IS TO BE LOCATED IN CECIL COUNTY, NEAR THE TOWN OF CHARLESTOWN

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

THIS WELL WILL NOT REPLACE ANOTHER WELL.

SPECIAL CONDITIONS

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THE ABOVE CONDITIONS FROM CODES ON APPLICATION

MISPRECISE TO LOG CONDIE

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(Serial Desire)

PERBERT H. SACHS VATER RESOURCES ADMINISTRATION

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STATE OF MARYLAND DEPARTMENT OF NATURAL RESOURCES WATER RESOURCES ADMINISTRATION TAWES OFFICE BUILDING, ANNAPOLIS, MARYLAND PERMIT TO DRILL WELL E PERMIT NUMBER- CE-TE-1401 ISSUE DATE 12/29/75 DRILLER ISSUED TO DRILLER 10. NUMBER- 158 SHORE WELL DRIRS INC CECIL TON MD 21913 THE ABOVE NAMED DRIELER IS HEREBY AUTHORIZED TO DRILL A WELL TO BE OWNED BY MCELYEA, WILL IAM-BX 33 RD 11 ECKTON MO THIS WELL IS TO BE LUCATED IN CECIL COUNTY, NEAR THE TOWN OF CHARLES TOWN THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY. THES WELL MILL NEW REPLACE ANOTHER WELLS PECITIE CONDITIONS A REDGATE VERLEAST 50 FT. FROM ANY SENAGE DISPOSAL SYSTEM. THE ABOVE CONDITIONS FROM CODES ON APPLICATION CONTROL OF THE PROPERTY OF THE DERECTOR APPARYLAND DHINISTRATION

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ISSUE DATE 03/17/76-MO-DA YR

PERMIT NUMBER- CE-73-1466

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ISSUED TO DRILLER-

DIFILIPPO. C JR 5 BRINTON WAY GLEN KYLE NEWARK DE 19711

DRILLER ID. NUMBER- 250

THE ABOVE NAMED ORILLER IS HEREBY AUTHORIZED TO DRILL A WELL TO-BE-OWN ED BY-

ALGART HARRY RIA PERRYVILLE MD

THIS WELL IS TO BE LOCATED IN CECIL COUNTY. NEAR THE TOWN OF PERRYVILLE

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

THIS WELL WILLENOF REPLACE AND THER WELL.

PECIAL CONDITIONS

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HERBERT M. SACHS THEFTHE M. RYLAND WATER RESUURGES ADMINISTRATIONS

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PERMIT TO DRILL WELL

OF DATE SPECIAL TO

PERSON NUMBER - CE-73-1481.

ISSUED TO DRILLER-

KIRK, VERNON W RFD 1 PERRYVILLE MD 21903 ID. NUMBER-

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A TI BE DWNED BY-

SIMPSON, EDGAR H 11327-RED LION RD WHITE MARSH MD

THIS WELL IS TO BE LOCATED IN CECIL COUNTY, NEAR THE TOWN DE PERRYVILLE

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

THIS WEEL WILL MOT REPLACE ANOTHER WELL.

SPECIAL CONDITIONS

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THE ABOVE CONDECTIONS FROM CODES ON APPRICATION

MERIERE I SACHS DIRECTOR MARYLAND MATER RESOURCES



PERMIT TO DRILL WELL

TO SUPPOPULATE OF THE SUPPOPULAT

PERMIT NUMBER- CE-73-1506

ELSSUED TO DRILLER

KIRK, VERNON H RED 1 PERRYVILLE MD 21903 DRILLER ID. NUMBER- 159

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WELL

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THIS WELL IS TO BE LOCATED IN CECIL COUNTY.
NEAR THE LOWN OF PERRYVILLE

THE MALLER IS TO BE USED FOR A DOMESTIC SUPPLY.

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SPECIAL CONDITIONS

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THE ABOVE CONDUCTIONS FROM CODES ON APPLICATION

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STATE OF MARYLAND DEPARTMENT OF NATURAL RESOURCES WATER RESOURCES ADMINISTRATION TAWES OFFICE BUILDING, ANNAPOLIS, MARYLAND PERMIT TO DRILL WELL PERMIT NUMBER- CE-73-1548 1 SSUE DATE - 06/11/76 MO DA YR DRILLER ID. NUMBER-ISSUED TO DRILLER-KIRK, VERNON W RFD 1 PERRYVILLE MD 21903 THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WELL TO BE OWNED BY. HARRIS, DONALD S 17 ONAWAY PL NEW CASTLE DE THIS WELL IS TO BE LOCATED IN CECIL COUNTY, NEAR THE TOWN OF CHARLESTOWN THE WATER IS TO BE USED FOR A EDOMESTIC SUPPLY. THIS WELL WILL REPEACE A VELL WHICH WILL BE ABANDONED & SEALED THE TO SECOME NULL AND VOID SPECIAL CONDITIONS LOTALE WELL ALBERT SO FIZ FROM ANY SEWAGE DISPOSAL SYSTEM. THE ABOVE CONDITIONS FROM CODES ON APPLICATION THE STATE OF THE S Medala de la particulação de la composição HERBERT M. SACHS BIRETUR LHARYLAND WATER RESOURCES;

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STATE OF MARYLAND DEPARTMENT OF NATURAL RESOURCES WATER RESOURCES ADMINISTRATION TAWES OFFICE BUILDING, ANNAPOLIS, MARYLAND PERMIT TO DRILL WELL PERMIT NUMBER- CE-73-LES ISSUE DATE 06/25/76 MO DA YR DRILLER ID. NUMBER-ISSUED TO DRILLER-KIRK, VERNON W RFD 1 PERRYVILLE MD 21903 THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WELL TO BE OWNED BY GOOD, RODNEY C POORY 27 STEVER SPRING PA ETHIS RELL IS TO BE LOCATED IN CECIL COUNTY. NEAR THE TOWN OF CHARLESTOWN THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY. THIS HELD WILL REPLACE A WELL WHICH WILL BE ABANDONED & SEALED. SPECIAL CONDITIONS FAILURE TO COMPLY WITH THE DICEONING ONDITIONS WILL CAUSE THIS PERMIT TO BECOME NULL AND VOID LOCALEWED SATILEAST SOLL FROM ANY SEWAGE DISPOSAL SYSTEM. THE ABOVE CONDITIONS FROM CODES ON APPLICATION ngins describe in calling being a 7/7-5/15 APPENDING TO THE PROPERTY OF T HERBERT M. SACHS DIRECTUR MARYLAND ELINATER RESOURCES ADMENISTRATION ...

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PERMIT TO DRILL WELL

SISSUE DATE -06/28/16 MO DA YR PERMIT NUMBER- CE-75-1598

ISSUED TO DRILLER-

PRESTON & HAMILTON 1 15 N PARADISE ROAD HAVRE DE GRACE MD 21078 DRILLER ID. NUMBER-

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A HELL TO BE WINED BY

WARRINGTON, JOHN RD 1 8X 223 21903 PERRYVILLE MD

THIS WELL IS TO BE LOCATED IN CECIL COUNTY.
NEAR THE TOWN OF PERRYVILLE

THE WATER ALS THE BE USED FOR A DOMESTIC SUPPLY.

THIS WELL WILL NOT REPLACE ANOTHER WELL.

SPECIAL CONDITIONS FAILURE TO COMPLY WITH THE FOLLOWING CONDITIONS WILL GAUSE THIS PERMIT TO BECOME NULL AND VOID

LOCALE WELL AT LEAST 50 ET - FROM ANY SEWAGE DISPOSAL SYSTEM.

THE ABOVE CONDITIONS FROM CODES ON APPLICATION

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SACHS RBERT M. SACHS TEN RESOURCES DMINISTRATION

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PERMIT TO DRILL WELL

ISSUE DATE- 39/28/75 MO DA YR

PERMIT NUMBER- 08-77-1756-

ISSUED TO DRILLER-

DIFILIPPO, C JR 5 BRINTON WAY, GLEN KYLE NEWARK DE 19711

DRILLER ID. NUMBER-

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WHITE TO BE DANED BY-

ROBINSON, LERGY GREENBANK CHARLESTOWN MD

THIS WELL IS TO BE LOCATED IN CECIL COUNTY, , LOT- 3 SUBDIVISION, SECTION-GREENBANK NEAR THE TOWN OF CHARLESTOWN

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

THIS WELL WILL NOT REPLACE ANOTHER WELL.

SPECIAL CONDITIONS

PAILURE TO COMPLY WITH THE POLLOWING CONDITIONS WILL CAUSE THIS PERMIT TO BECOME NULL AND

1. LOCATE WELL AT LEAST 50 FT. FROM ANY SEWAGE DISPOSAL SYSTEM.

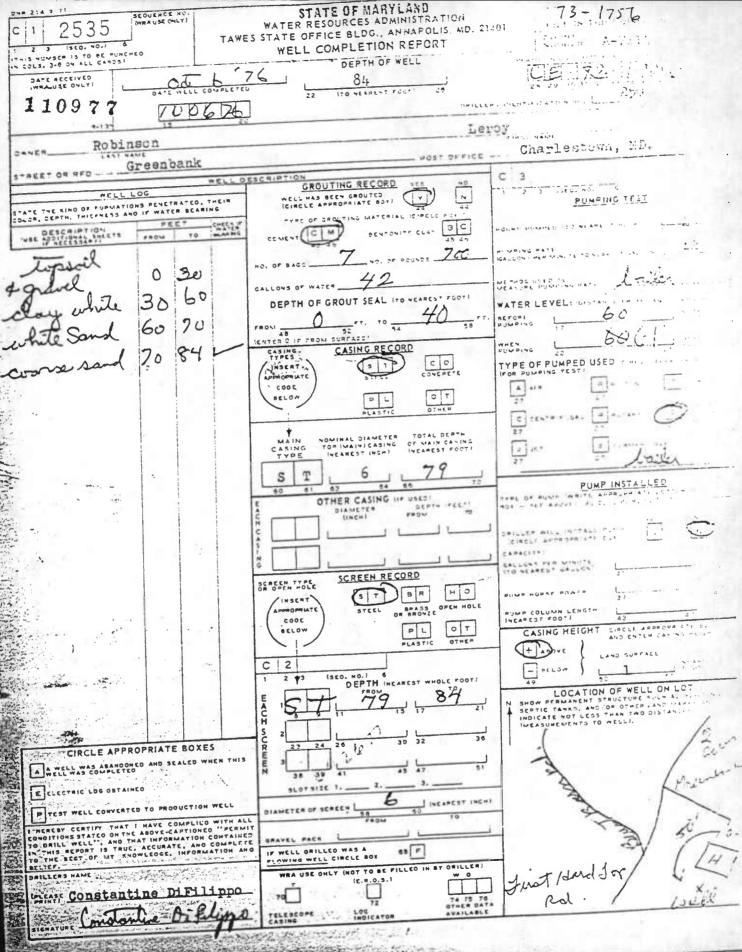
THE ABOVE CONDITIONS FROM CODES ON APPLICATION

THIS PERMIT IS VALID UNTIL 03/23/77. A-WELL COMPLETION . REPORT MUST BE SUBMITTED TO THE ADVINISTRATION WITHIN 30 DAYS AFTER COMPLETION OF THE WELL

HERBERT M. SACHS DIRECTOR, MARYLAND WATER RESOURCES ADMINISTRATION

CRIGINAL

CONTROL OF THE STATE OF THE STA



PERMIT TO DRILL WELL

ISSUE DATE- 11/10/76 NO DA YR PERMIT NUMBER- CE-73-1514

ISSUED TO DRILLER-

SHORE WELL DRERS INC

IO. NUMBER- 11

CECILTON MD 21913

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WELL TO BE OWNED BY

GREENE, DAVID PERRY PT PERRYVILLE MO

THIS WELL IS TO BE LOCATED IN CECIL COUNTY, NEAR THE TOWN OF CHARLESTOWN

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

THIS WELL WILL NOT REPLACE ANOTHER WELL.

SPECIAL CONDITIONS

FAILURE TO COMPLY WITH THE FOLLOWING CONDITIONS WILL CAUSE THIS PERMIT TO SECOME MULL AND MOID.

1. LOCATE WELL AT LEAST 50 FT. FROM ANY SEWAGE DISPOSAL SYSTEM.

THE ABOVE CONDITIONS FROM CODES ON APPLICATION

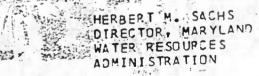
THIS PERMIT IS VALID UNTIL

05/12/27 A WELL COMPLETION

REPORT HUST BE SUBMITTED TO

THE ADMINISTRATION WITHIN 30 DAYS

AFTER COMPLETION OF THE WELL



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PERMIT TO DRILL WELL

ISSUE DATE- 03/04/77 MC DA YR

PERMIT NUMBER- CE-73-1931

ISSUED TO DRILLER-

KIRK. VERNON W RFD 1 PERRYVILLE MD 21903 DRILLER ID. NUMBER- 159

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WELL TO BE OWNED BY-

DAROIS, ROGER E 950 HILLSWOOD RD BELAIR MD

THIS WELL IS TO BE LOCATED IN CECIL COUNTY. NEAR THE TOWN OF CHARLESTOWN

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

THIS WELL WILL NOT REPLACE ANOTHER WELL.

SPECIAL CONDITIONS

FAILURE TO COMPLY WITH THE FOLLOWING CONDITIONS WILL CAUSE THIS PERMIT TO BECOME NULL AND VOID.

1. LOCATE WELL AT LEAST 50 FT. FROM ANY SEWAGE DISPOSAL SYSTEM.

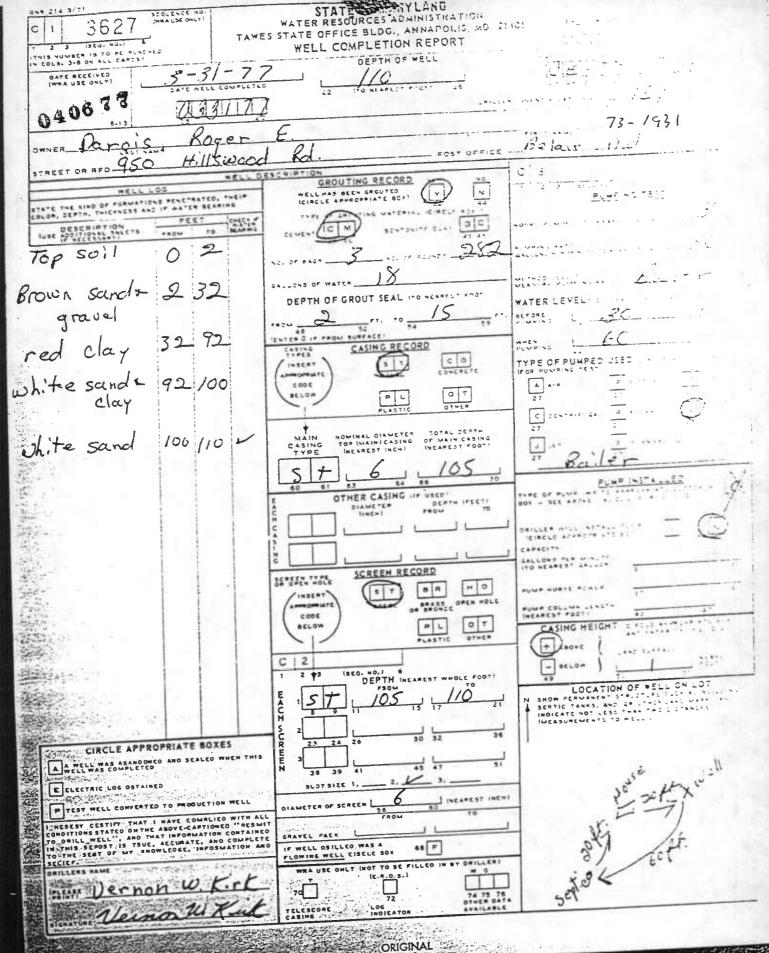
THE ABOVE CONDITIONS FROM CODES ON APPLICATION

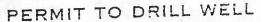
THIS PERMIT IS VALID UNTIL 09/04/77. A-WELL COMPLETION REPORT MUST BE SUBMITTED TO REPORT MUST BE SUBMITTED TO THE ADMINISTRATION WITHIN 30 DAYS AFTER COMPLETION OF THE WELL



ORIGINAL

EMERGENCY NO. HEATY' -





ISSUE DATE- 03/31/77 NO DA YR PERMIT NUMBER- CE-73-1050

ISSUED TO DRILLER-

KIRK, VERNON W
RFD 1
PERRYVILLE MD 21903

DRILLER ID. NUMBER- 1 ...

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WELL TO BE OWNED BY-

MAST JR, VERNON G RT 3 BX 532 NEW HOLLAND PA 17557

THIS WELL IS TO BE LOCATED IN CECIL COUNTY, NEAR THE TOWN OF CHARLESTOWN

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

THIS WELL WILL NOT REPLACE ANOTHER WELL.

SPECIAL CONDITIONS

FAILURE TO COMPLY WITH THE FOLLOWING CONDITIONS WILL CAUSE THIS PERMIT TO BECOME NULL AND VOID

1. LOCATE WELL AT LEAST 50 FT. FROM ANY SEWAGE DISPOSAL SYSTEM.

THE ABOVE CONDITIONS FROM CODES ON APPLICATION

THIS PERMIT IS VALID UNTIL

09/28/77. A WELL COMPLETION

REPORT MUST BE SUBMITTED TO

THE ADMINISTRATION WITHIN 30 DAYS

AFTER COMPLETION OF THE WELL

HERBERT M. SACHS
DIRECTOR. MARYLAND
WATER RESOURCES
ADMINISTRATION



STATE UF MANTLAND WATER RESOURCES ADMINISTRATION WEDVENCE NO. TAWES STATE OFFICE BLOG., ANNAPOLIS, MARYLAND 21401 APPLICATION FOR PERMIT TO DRILL WELL 1 2 3 (3EQ. NO.) 5 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 SM ALL CARCS) Vernon G OATE RECEIVED 73-1956 POST CE L LOCATION OF FEL! DRILLER INFORMATION B | 1 | CONTINUED COUNTY 1450. 43.1 LICENSE . SUBDIVISIO" Unos W. F. DIRECTION FROM 10%5 WELL INFORMATION 8:4 SEC. 40. MAXIMUM BUMBING RATE (GALLONS PER WINLISE) NOR TH AVERAGE DAILY QUANTITY NEEDED IGALLONS PER CAT: USE FOR WATER (CIRCLE APPROPRIATE BOX) DE SINGLE OF DOUBLE HOUSEHOLD UNIT ONLY! F PARMING, AGRICULTURE, IRRIGATION 1 INQUSTRIAL . COMMERCIAL, STATE AND FEDERAL GOVERNMENT. OISTANCE FROM ROAL
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WATER RESOURCES ADMINISTRATION SENDENCE MILY! 4691 TAWES STATE OFFICE BLDG. ANNAPOLIS, MD. 21401 1 2 3 (SEQ. NO.) 6 (THIS WEMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CAMOSI WELL COMPLETION REPORT DEPTH OF WELL CAR 1.121 5-19-77 50 62173 0511977 73-1956 mast Jr, Vernon New Holland, BX 532 3 GROUTING RECORD 3.3 WE .. - KS BEE' 4"3."E2 ICIPC .E AFPROPE N° E 824 STATE THE NIME OF FORWATIONS PENETRATED, THEIR COLER, DENTH, THICKNESS AND IF WATER BEARING PUNE NE TEL DESCRIPTION PEET CHECK WATER TO WATER 9 0 Top soil sandtgravel 2 20 TH OF GROUT SEAL -: STANS whiteclay 20 40 CASING RECORD white sand 4050 TYPES -APPROPRIATE 2002 0 T TOR WAIT TASING TOR WAIT TASING NEARCST AZO 45 481 ST FRO* CASING PUMP INSTALLED 54 901 - 36F + 701 - 4 - 7 OTHER CASING IL VELET -----TIME" DRIGHT AND AND AND AND CAMACITAL \$4. LONG PER WITE SCREEN RECORD SEREEM TYPE н 0 1317 HUMP HORSE FORE INSERT 34433 OPEN HOLE NEAFEST FIRT CODE DL 0 T BELOW CASING HEIGHT + 12000 2 2 93 LOCATION OF WELL ON LOT CIRCLE APPROPRIATE BOXES A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED Here e-60 ft E PLEETRIC LOS OBTAINED P TEST WELL CONVENTED TO PRODUCTION WELL I INCAMENT INCH! I. MERESY TERTIFY THAT I MAYE COMPLIED WITH ALL CONDITIONS STATED ON THE ABOVE-CAPTIONED "PERMIT TO 'DRILL WELL", AND THAT INFORMATION EDITAINED IN THIS NEPDRT IS TRUE, ACCURATE, AND COMPLETE TO THE BEST OF MY KNOWLEGGE, INFORMATION AND SELIEF. EDNOITIONS STATI TO ORILL WELL' IN THIS MEPORT TO THE BEST OF BELIEF. OF THE GRAVEL PACK IF WELL DRILLED WAS A FLOWING WELL CIRCLE BOX 40 F WEA USE ONLY INOT TO SE FILLED IN SY DRILLER!

PERMIT TO DRILL WELL

ISSUE DATE- 03/31/77 MO DA YR

PERMIT NUMBER- CE-73-1957

ISSUED TO DRILLER-

DRILLER 10. NUMBER- 1999

KIRK. VERNON W RFD 1 PERRYVILLE MD 21903

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WELL TO BE OWNED BY-

BRITTINGHM. THOMAS

CHARLESTOWN MD

THIS WELL IS TO BE LOCATED IN CECIL COUNTY. NEAR THE TOWN OF CHARLESTOWN

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

THIS WELL WILL REPLACE A WELL WHICH WILL BE A STANDBY.

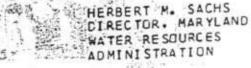
SPECIAL CONDITIONS

FAILURE TO COMPLY WITH THE FOLLOWING CONDITIONS WILL CAUSE THIS PERMIT TO BECOME NULL AND YOLD

1. LOCATE WELL AT LEAST 50 FT. FROM ANY SEWAGE DISPOSAL SYSTEM.

THE ABOVE CONDITIONS FROM CODES ON APPLICATION

THIS PERMIT IS VALID-UNTIL REPORT MUST BE SUBMITTED TO THE ADMINISTRATION WITHIN 30 DAYS AFTER COMPLETION OF THE WELL



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	1 /2
OTHER WESCHISE)	5 / Sx
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A LIGHT

PERMIT TO DRILL WELL

ISSUE DATE- 05/04/77

PERMIT NUMBER- CE-73-1996

ISSUED TO DRILLER-

DRILLER ID. NUMBER- 11.

KIRK, VERNON W
RFD 1
PERRYVILLE MD 21903

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WELL TO BE OWNED BY-

MCVEY, GEORGE B
2639 LONGFELLOW
WILMINGTON DE 19808

THIS WELL IS TO BE LOCATED IN CECIL COUNTY. NEAR THE TOWN OF CHARLESTOWN

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

THIS WELL WILL NOT REPLACE ANOTHER WELL.

SPECIAL CONDITIONS

FAILURE TO COMPLY WITH THE FOLLOWING CONDITIONS WILL CAUSE THIS PEPMIT TO BECOME NULL AND VOID

1. LOCATE WELL AT LEAST 50 FT. FROM ANY SEWAGE DISPOSAL SYSTEM.

THE ABOVE CONDITIONS FROM CODES ON APPLICATION

THIS PERMIT IS VALTO UNTIL

11/04/37. A WELL COMPLETION

REPORT MUST BE SUBMITTED TO

THE ADMINISTRATION WITHIN 30-DAYS

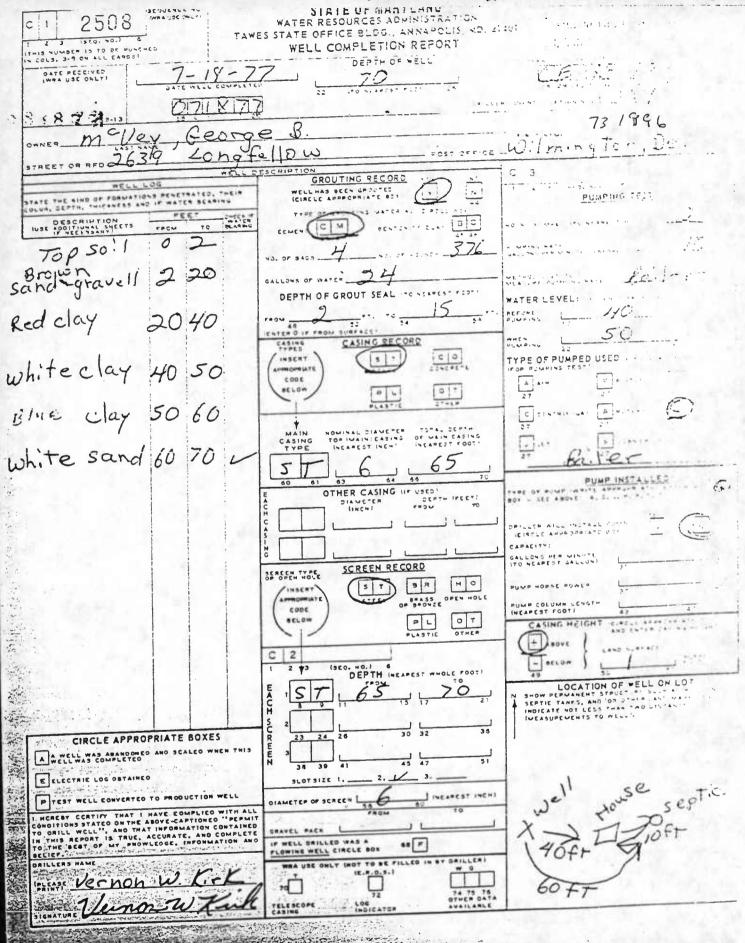
AFTER COMPLETION OF THE WELL

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HERBERT M. SACHS DIRECTOR, MARYLAND WATER RESOURCES ADMINISTRATION

WATER RESOURCES ADMINISTRATION 0035 TAWES STATE OFFICE SLDG., ANNAPOLIS, MARYLAND STAUT 1 2 3 (SEC. NO.) 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CAROS) APPLICATION FOR PERMIT TO DRILL WELL 11.1 19 11. DATE REFEIVED 72-1996 De mar LOCATION OF ACI CONTINUED COUNTY 50601V-510N IENTER O IF IN DIRECTION FROM TOP 8 2 MARIMUM PUMPING RATE (GALLONS PER MINUTE) NIE HONTHEAST AVERAGE DAILY QUANTITY NEEDED (GALLONS FOR CAY) WITH USE FOR WATER (CIRCLE APPROPRIATE BOX) D HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY) F PARMING, ASRICULTURE, IRRIGATION I INQUSTRIAL , COMMERCIAL, STATE AND PEDERAL COVERNMENT. OISTANCE FROM ROAD (ENTER DISTANCE AND CIRCLE APPROPRIATE SOX) ORAW A SAETCH BELOW SHEWING LOCATION OF WELL IN BLUE TO ROADS AND BYREAMS WITH MORTH IN THE DIRECTION OF THE LEAST TANCE FROM WELL TO MEAREST ROAD JUNGTION OR STREAM CHILL SKETCH, ALSO SHOW, BY MEAMS OF AN "E", THE WELL LOCATION AND THE BOX NUMBER FROM THE WELL LOCATION MAP. PRIVATE WATER COMPAN Qo Charles Ti 100 APPROXIMATE DEPTH OF WELL I THEAREST THEM! APPROXIMATE DIAMETER OF WELL METHOD OF DRILLING USED (CIRCLE APPROPRIATE METHOD) ORIVEN BORED (OR AUGEREO) JETTED ROTARY (HYDRAULIC ROTARY) AIR-PERCUSSION 10-17 AIR-HOTARY REVERSE-ROTARY DRIVE-POINT CAPLE OTHER GESCRISE)_ REPLACEMENT OR DEEPENED WELLS (CIRCLE APPROPRIATE BOX) N THIS WELL WILL NOT REPLACE AN EXISTING WELL TRIB WELL WILL REPLACE A WELL TRAT WILL BE ABANDONED AND SEALED TRIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANOBY THIS WELL WILL OCCPEN AN EXISTIRS WELL
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WHA USE ONLY!



PERMIT TO DRILL WELL

ISSUE DATE- 06/10/77 AY AO DA YR

2063 PERMIT NUMBER- CE-73-2041

ISSUED TO DRILLER-

PRESTON & HAMILTON 115 N PARADISE HAVRE DE GRACE MD 21378 ID. MIMBER-

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WELL TO BE OHNED BY-

GIRALDI, ROBERT T 20 1 PERRYVILLE MD 21903

THIS WELL IS TO BE LOCATED IN CECIL COUNTY. NEAR THE TOWN OF PERPYVILLE

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

THIS WELL WILL NOT REPLACE ANOTHER WELL.

SPECIAL CONDITIONS

FAILURE TO COMPLY WITH THE FOLLOWING CONDITIONS WILL CAUSE THIS PERMIT TO SECOME NULL AND VOIC

1. LOCATE WELL AT LEAST 50 FT. FROM ANY SEWAGE DISPESAL SYSTEM.

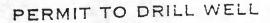
THE ABOVE CONDITIONS FROM CODES ON APPLICATION

THIS PERMIT IS VALID UNTIL 12/10/77 WELL COMPLETION REPORT MUST BE SUBMITTED TO THE ADMINISTRATION-WITHIN ,30-DAYS AFTER COMPLETION OF THE WELL

HERBERT M. SACHS DIRECTOR, MARYLAND HATER RESOURCES ADMINISTRATION

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STATE OF MARYLAND ONR 214 9/71 WATER RESOURCES ADMINISTRATION THE IN THIS WILL THE 2880 TAWES STATE OFFICE BLDG., ANNAPOLIS, MD. 21401 73-2-63 WELL COMPLETION REPORT (SEO. NO.) 6 STHIS NUMBER IS TO BE BUNCHED IN EOLS. 3-8 ON ALE CARDS! DEPTH OF WELL DATE RECEIVED MPR 27 1978 iralde nost office C 3 MELL DESCRIPTION GROUTING RECORD YES ? 1-2 -3- -12. 5. - · · · · · · · · WELL HAS BEEN GROUTED (CIPCLE ASPROPPIATE BC4) STATE THE CIND OF FORMATIONS PENETRATES, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING PURPLED TEST TO MANES 3 C DESCRIPTION (USE ADDITIONAL SHEETS FROM | 70 AND A COLUMN TO THE PARTY OF MARKET GALLONS OF WATER___ DEPTH OF GROUT SEAL ITO MEANERS FEET WATER LEVEL: SENTER O IF PROM SURFACE! MARA CASING RECORD TYPE OF PUMPED USED 0 0 CONCALTE. APPROPRIATE 2002 O T BELOW 10 C CENTRIFUGAL TOTAL DEPTH TOP IMAIN EASING (NEAREST INCH) MAIN CASING 3 41 64 60 PUMP INSTALLED THE OF PULSE IMPITE APPROPRIATION OTHER CASING ILF USED! DENTH (FECT) SIAMETER . SRILLEP WILL HOTAL P. WP CAPACITY: CALLONS HEN WINDTE SCREEN RECORD SCHEEN TYPE H 0 PUMP HOPSE POWER ST 8 11 INSERT SHASS OPEN HOLE PUMP COLUMN LENGTH C005 WAR EMATE THE TANK TO THE O T 100 the 100 7 PL CASING HEIGHT RELOW PLASTIC (+ LAOVE - 8610# DEPTH (HEAPEST WHOLE FOOT! LOCATION OF WELL ON LOT SHOW REPMANENT STRUCTURE SAID A T. SEPTIC TANKS, AND/OR OTHER AND NAMED INDICATE NOT LESS THAN TWO DISTANCES IMEASUREMENT TO MAN TWO DISTANCES 23 IMEASUREMENTS CIRCLE APPROPRIATE BOXES A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED E ELECTRIC LOG DETAINED P TEST WELL CONVERTED TO PRODUCTION WELL I (NEARCST INCH) DIAMETER OF SCREEN L EMERENT CERTIFY THAT I MAYE COMPLIED WITH ALL CONDITIONS STATED OR THE ABOVE CAPTIONED "PERMIT TOODRELLD WELL", AND THAT INFORMATION CONTAINED IN THIS REPORT IS TRUE, ACCURATE, AND COMPLETE TOTALE BEAT OF MY RHOWLEDGE, INFORMATIOR AND House SPAVEL PACK IF WELL DRILLED WAS A PLOWING WELL CINCLE BOX WEAUSE ONLY INST TO BE FILLED IN BY BRILLEN! CHAS HAMILTON , TI (E.*,0,5.) 70 74 75 76 OTHER DATA Charles H. ORIGINAL



73-2089

ISSUE DATE- 06/23/77 MO DA YR PERMIT NUMBER- CF-73-2099

ISSUED TO DRILLER-

DRILLER ID. NUMBER-

KIRK, VERNON W RFD 1 PERRYVILLE MD 21903

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WELL TO BE OWNED BY-

TODT. PAUL F RT 1 BX 279 LEESPORT PA

THIS WELL IS TO BE LOCATED IN CECIL COUPTY, NEAR THE TOWN OF CHARLESTOWN

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

THIS WELL WILL REPLACE A WELL WHICH WILL BE ABANDONED & SEALED

SPECIAL CONDITIONS

FAILURE TO COMPLY WITH THE FOLLOWING CONDITIONS WILL CAUSE THIS PERMIT TO SECOME MULL AND VOICE

1. LOCATE WELL AT LEAST 50 FT. FROM ANY SEWAGE DISPOSAL SYSTEM

THE ABOVE CONDITIONS FROM CODES ON APPLICATION

THIS PERMIT IS VALID UNTIL

12/23/77 A WELL COMPLETION

REPORT MUST BE SUBMITTED TO B

THE ADMINISTRATION WITHIN 30 DAYS

AFTER COMPLETION OF THE WELL

HERBERT M. SACHS
DIRECTOR, MARYLAND
WATER RESOURCES
ADMINISTRATION

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EMERGENCY NO. (11 any) -STATE OF MARYLAND WATER RESOURCES ADMINISTRATION EGHENCE NO. TAWES STATE OFFICE BLOG., ANNAPOLIS, MARYLAND 21431 8:1 APPLICATION FOR PERMIT TO DRILL WELL C 18 1 518 + Q 6+ 1 2 3 ISEC. NO.) 6 ITHIS NUMBER IS TO SE RUNCHED IN COLS. 3-2 ON ALL CAPOSI 73-2163 MELRATH, Kay DATE HETE VED 080577 B 3 DRILLER INFORMATION CONTINUED COUNTY SUBDIVISION DIRECTION FROM 10+N MAXIMUM PUMPING RATE (GALLONS PER MINUTE) ISEA. NO.I N 528*4 AVERAGE DAILY QUANTITY NEEDED IGALLONS PERDAY) L 5 USE FOR WATER (CIRCLE APPROPRIATE BOX) OD -OME (SINCLE OR DOUBLE HOUSEHOLD UNIT ONLY) F PARMING, AERICULTURE, IRRIEATION INDUSTRIAL , COMMERCIAL, STATE AND PEDERAL GOVERNMENT. OISTANCE FROM ROAD (ENTER DISTANCE AND CIRCLE APPROPRIATE GOT) ORAW A SKETCH SELOW SHOWING LICE TO SELECTION OF THE REGION OF THE RELIGIOUS SERVICES OF AN OTHER REGION OF THE WELL SOLVE TO MAP. MUST HAVE STATE HEALTH DEPT. APPROVAL 28 APPROXIMATE DEPTH OF WELL | (NEAREST INCH) PPROXIMATE DIAMETER OF WELL .. METHOD OF DRILLING USED (CIRCLE APPROPRIATE METHOD) DRIVEN BORED (OR AUGERED) JETTED ROTARY (HYDRAULIE ROTARY) AIR-PERCUSSION 0-37 AIR-ROTARY REVERSE-ROTARY DRIVE-POINT CABLE REPLACEMENT OR DEEPENED WELLS (CIRCLE APPROPRIATE BOX) N) HIS WELL WILL HOY REPLACE AN EXISTING WELL THIS WELL WILL REPLACE A WELL THAT WILL SE ABANDONED AND SEALED THIS WELL WILL REPLACE A WELL THAY WILL BE USED AB A STANDBY THIS WELL WILL DEEPEN AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED (IF AVAILABLE) NOT TO BE FILLED IN BY DRILLER BOX CONDITIONS HEALTH DEPARTMENT APPROVAL B 4 CONTINUED Cecil 3 STATE NEALTH MO. POAY TA DATE 0 8 04 7 7

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PERMIT TO DRILL WELL

ISSUE DATE- 10/19/77 MO DA YR PERMIT NUMBER- CE-73-2286

ISSUED TO DRILLER-

DRILLER
ID. NUMBER- 250

DIFILIPPO, C JR 5 BRINTON WAY, GLEN KYLE NEWARK DE 19711

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WELL TO BE OWNED BY-

TRI STATE MOTOR TRAN P O BX 188 RUBY SC

THIS WELL IS TO BE LOCATED IN CECIL COUNTY, NEAR THE TOWN OF NORTH EAST

THE WATER IS TO BE USED FOR A COMMERCIAL/INDUSTRIAL SUPPLY.

THIS WELL WILL REPLACE A WELL WHICH WILL BE A STANDBY.

SPECIAL CONDITIONS

FAILURE TO COMPLY WITH THE FOLLOWING CONDITIONS WILL CAUSE THIS PERMIT TO BECOME MULL AND YOU

- 1. PROVIDE OPENING FOR TAPE MEASUREMENT OF WATER LEVELS (MIN. INSIDE DIAM. OF ONE-HALF INCH) SEALED BY REMOVABLE CAP/PLUG
- 2. A TAP FOR RAW WATER SAMPLES MUST BE PLACED BEFORE WATER ENTERS A TREATMENT FACILITY, PRESSURE OR STORAGE TANK.
- 3. LOCATE WELL AT LEAST-50 FT. FROM ANY SEWAGE DISPCSAL SYSTEM

THE ABOVE CONDITIONS FROM CODES ON APPLICATION

THIS PERMIT IS VALID UNTIL

04/19/478. A WELL COMPLETION

REPORT MUST BE SUBMITTED TO

THE ADMINISTRATION WITHIN 30 DAYS

AFTER COMPLETION OF THE WELL

GROUNDWATER AFPROPRIATION PERMIT NUMBER- CE77GAPOL4

HERBERT M. SACHS DIRECTOR, MARYLAND WATER RESOURCES ADMINISTRATION

STATE OF MARYLAND ER RESOURCES ADDINISTRATION TE OFFICE BLDG. ANNAPOLIS, ND. 2146 WELL COMPLETION REPORT 73 2286 DEPTH OF WELL MOTOR 188 GROUTING RECORD PUMPTIC 11 B C GROUT SEAL ITO -C. 60 TO CASING RECORD CASING TYPE OF PUMPED USED C G -([3]1) 70 150 L A DOMESTINATE CODE SELOW OT TOP IMAIN CASING CASING TYPE 5 0- AVE : --PUMP INSTALLED OTHER CASING OF USED THE OF HUMP IN MITE APPROPRIATE AT DEPTH (FEET) CAPACITY: SCREEN RECORD OR OPEN TYPE ON BRONIE OPE 5 T HUMP HORSE ROMER PHREST O T CASING HEIGHT 2 DEPTH (HEARCE SHOW PERMANENT STRUCTURE SUCH AS NULL SEPTIC TAWAS, AND TOR OTHER AND WARMS, INDICATE NOT LESS YMAY TWO DISTANCES (MEASUREMENTS TO WELL). CIRCLE APPROPRIATE BOXES E ELECTRIC LOG OUT P TEST WELL CONVERTED TO PRODUCTION WELL T I HAVE COMPLIED WITH ALL THE ABOVE-CAPTIONED "PERMIT THAT INFORMATION CONTAINED UC. ACCURATE. AND COMPLETE IF WELL ORILLED WAS A PLOWING WELL CIRCLE BOX ORILLERS HAME

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PERMIT TO DRILL WELL

ISSUE DATE- 01/13/78 MO DA YR PERMIT NUMBER- CE-73-2386

ISSUED TO DRILLER-

DELMARVA DREG CO IN CPO BOX 188 BRIDGEVILLE, DEL 19933 DRILLER ID. NUMBER- 1.1

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WELL TO BE OWNED BY-

ROGERSON, HARRY 1112 STONEWOOD CT WILMINGTON DE 19810

THIS WELL IS TO BE LOCATED IN CECIL COUNTY, NEAR THE TOWN OF CHARLESTOWN

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

THIS WELL WILL NOT REPLACE ANOTHER WELL.

SPECIAL CONDITIONS

FAILURE TO COMPLY WITH THE FOLLOWING CONDITIONS WILL CAUSE THIS PERMIT TO BECOME HULL AND VOICE

1. LOCATE WELL AT LEAST 50 FT. FROM ANY SEWAGE DISPOSAL SYSTEM.

THE ABOVE CONDITIONS FROM CODES ON APPLICATION

THIS PERMIT IS VALID UNTIL

07/13/78. A WELL COMPLETION

REPORT MUST BE SUBMITTED TO

THE ADMINISTRATION WITHIN 30 DAYS

AFTER COMPLETION OF THE WELL

HERBERT M. SACHS DIRECTOR, MARYLAND WATER RESOURCES ADMINISTRATION

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PERMIT TO DRILL WELL

1550E DATE-05/16/78 CHO DE VR

PERMIT NUMBER- CE-73-2518

ISSUED TO DRILLER-

DRILLER ID. NUMBER- 159

KIRK, VERNON W RFD 1 PERRYVILLE MD 21903

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WELL TO BE OWNED BY-

BRITTINGHAM, THOMAS GREENBANK CHARLESTOWN MD 21914

THIS WELL IS TO BE LOCATED IN CECIL COUNTY, NEAR THE TOWN OF CHARLESTOWN

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

THIS WELL WILL REPLACE A WELL WHICH WILL BE ABANDONED & SEALED.

SPECIAL CONDITIONS

CATE WELL AT LEAST 50 FT. FROM ANY SENAGE DISPOSAL SYSTEM.

THE ABOVE CONDITIONS FROM CODES ON APPLICATION

THIS PERMIT IS VALID ON IL.

11 10/18 ASSESS COMPANIONS
REPUBLISHED BE STRUCKED OF

STATE OF MARYLAND
DEPARTMENT OF NATURAL RESOURCES
WATER RESOURCES ADMINISTRATION
WATER RESOURCES ADMINISTRATION
TAWES OFFICE BUILDING, ANNAPOLIS, MARYLAND



PERMIT TO DRILL WELL

MISSUE DATE 06/29/78

PERMIT NUMBER- CE-73-2584

ISSUED TO DRILLER-

DRILLER ID. NUMBER- 153

KIRK, VERNON W RFD 1 PERRYVILLE MD 21903

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL 4 WELL TO BE OWNED BY-

HUGHES, ROBERT W 302 E JOPPA RD BALTIMORE MD

THIS WELL IS TO BE LOCATED IN CECIL COUNTY, NEAR THE TOWN OF CHARLESTOWN

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

THIS WELL WILL REPLACE A WELL WHICH WILL BE ABANDONED & SEALED.

SPECIAL CONDITIONS

ALURE TO COMPLY WITH THE FOLLOWP CONDITIONS WILL CAUSE THIS PERMIT TO SECONE NULL AND VOID

1. LOCATE WELL AT LEAST 50 FT. FROM ANY SEWAGE DISPUSAL SYSTEM.

THE ABOVE CONDITIONS FROM CODES ON APPLICATION

REPUBLICATION OF THE PROPERTY

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PERMIT TO DRILL WELL

SSUE DATE 07/18/78.

PERMIT NUMBER- CE-T3-2605

The state of the s

ISSUED TO DRILLER- SHORE WELL DRIRS INC

CPILLET ID. NEMBER- 138

CECILTON MD 21913

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WELL TO BE CHNED BY-

IREY, DON RD -1: BOX 365 PERRYVILLE MD 21903

THIS WELL IS TO BE LOCATED IN CECIL COUNTY, . LCT-CRAFT HAVEN SUBDIVISION, SECTION-NEAR THE TOWN OF CHARLESTOWN

THE WATER IS TO BE USED FOR A COMMERCIAL/INCUSTRIAL SUPPLY.

THIS WELL WILL REPLACE A WELL WHICH WILL BE A STANDBY.

SPECIAL CONDITIONS

PROVIDE OPENING FOR TAPE MEASUREMENT OF WATER LEVELS (MIN. TINSTIDE DIAM POF UNE HALF INCH) SEALED BY REMOVABLE CAP/PLUG. ENTERS A TREATMENT FACILITY PRESSURE OF STERAGE LANK. TUDGATE WELL AT LEAST WELLTERDY ANY SEVAGE DESPESAL SYSTEM.

THE ABOVE CAMBITIONS FROM CODES ON APPEACATION

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HERBERT ASSACHS WATER RESUURCES ADMINISTRATION

STATE OF MARYLAND TE 73 2605 WATER RESOURCES ADMINISTRATION TAWES STATE OFFICE BLDG., ANNAPOLIS, MARYLAND 21401 THE STREET IS TO BE PURCHED IN COLS. 3-L ON ALL CARDS) FILL IN THIS YOUR APPLICATION FOR PERMIT TO DRILL WELL JUL 17 1978 OWNER COLLEGE, LAST, LAS CRAFT HAVEN RD1-BEY 365 CRAYVILL, MARY LANC 21903 LOCATION OF WELL 19/76 Just 138 Charles Town DIRECTION FROM TOUN NE MONTHEAST 1 5 19 N W MONTHWEST I IN ME 9 2007H W WEST MUNICIPAL MAYER SUPPLY SELOW SHOWING LOCATION OF WELL IN SELATION IS NELL THE STREET ON OF THE ARROW. AND SELECT ON SEAMON AND SHOULD SELECT ON SEAMON AND SHOULD SELECT ON SEAMON AND SELECT ON SEAMON AND SELECT ON SEATON IN THE WELL LOCATION IN THE AREA OF AN INC. THE WELL LOCATION IN THE AREA OF AN INC. SECOND SEATON SERVICE OF SELECTION SERVICES. POTVATE WATER COMPART Charles The Carlinks Pr Ph COMMAND SEPTIMO WELL OKINATE MANEY 18 OF WELL ETIME OF BEST INC SEED WHALE Xwall AR PENTER YOU

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PERMIT TO DRILL WELL

ISSUE DATE 108/09/18
MD:DA YR

PERMIT NUMBER- CE-73-7664

ISSUED TO DRILLER-

CRILLER ID. NUMBER- 111

PRESTON & HAMILTON
115 N PARADISE
HAVRE DE GPACE MD 21078

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WELL TO BE OWNED BY

FRAZIER, ZEWELL 213 LANDING LA ELKTON MD 21921

THIS WELL IS TO BE LOCATED IN CECIL COUNTY, NEAR THE TOWN OF PERRYVILLE

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

THIS WELL WILL NOT REPLACE ANOTHER WELL.

SPECIAL CONDITIONS

I. LOCATE WELL AT LEAST 50 FT. FROM ANY SEWAGE DISPESAL SYSTEM.

THE ABOVE CONDITIONS FROM CODES ON APPLICATION

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STATE OF MARYLAND MAN ON OHEAS WATER RESOURCES ADMINISTRATION MILL IN THE TOX TAMES STATE OFFICE BLDG., ANNAPOLIS, MD. 21401 0000° *** -- (9 EQ. NO.) - - & WELL COMPLETION REPORT THIS NUMBER IS TO SC PUNCHED IT CITES 3-6 ON ALL CARDS! DEPTH OF WELL BATE RECEIVED MAR 1 3 1979 MAR 1 3 1979, POST OFFICE GROUTING RECORD ... YES WELL HAS BEEN GROUVED PUMPING TEST STATE, THE KING OF FORMATIONS PERETRATED, THEIR, OLDER, DEPTH, THICKNESS, AND IF WATER BEARING, DESCRIPTION PROMITE TO WATER FOURT PUWPED ITS RESERVED W2.41 NO. CF POUNOS GALLONS OF WATER 25 DEPTH OF GROUT SEAL ITO MEASEST FOOL WATER LEVEL: POISTANCE CASING RECORD S T CO STEEL CONCRETE TYPE OF PUMPED USED IC ACLE "INSERT STAR PORTE A 418 3,C00E PL OT PLASTIC OTHER 0 and 98765 C CENTRIFUGAL MAIN HOWING DIAMETER TOTAL OFFTH CASING TO HAND LASING OF MAIN CASING OF MAIN CAS 5 SUBMERDITOR J JET PUMP INSTALLED TIPE OF PUMP INRITE APPROPRIATE LETTERS - SEE ABOVE: A. C. J. P. R. S. T. C. OTHER CASING by BEETH (FELT) DRILLER WILL INSTALL PULP ICIRCLE APPECEPTIATE SCAL CAPACITY 图 如 解 例 的 定 的 以 几 SALLONS PER MINUT PUMP NORSE PORCE PUMP COLUMN LEVETH PU OF CASING HEIGHT LEHELE APPREPRIATE BEA + phove CH2 SA CHESTER OF THE - | accom) LOCATION OF WELL ON LOT SHOW PERMANENT STREETURE SWILL AS SA SEPTIC TAMAS, AND/ON OTHER LAND WATER INDICATE NOT LESS THAN TWO DISTANCES TO WELL! SEUTH MEASUREMENTS BOOK CHEGE ALL KOSHIATE BEVEL 1001



PERMIT TO DRILL WELL

PERHIT NUMBER- CE-73-2713

FINE STREET, S

ISSUED TO DRILLER-

KIRK, VERNON W RFD 1 PERRYVILLE HD 21903 DRILLER ID. NUMBER- 159

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WELL TO BE DWNED BY-

NIXDORF, JOHN E 222 W LIBERTY ST L'ANCASTER PA 17603

THIS WELL IS TO BE ECCATED IN CECIL COUNTY, NEAR THE TOWN OF CHARLESTOWN

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

THIS WELL WILL NOT REPLACE ANOTHER WELL.

SPECIAL CONDITIONS

TOCALE WELL AT LEAST 50 FT. FROM ANY SENAGE DISPUSAL SYSTEM.

THE ABOVE CONDITIONS FROM CODES ON APPLICATION

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PERMIT TO DRILL WELL

MO DA YR

PERHIT NUMBER- CE-73-2718

ISSUED TO DRILLER

KIRK, VERNON W PERRYVILLE MD 21903 DRILLER ID. NUMBER- 159

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WELL TO BE OWNED BY

NIXDORF, JOHN E 222 W LIBERTY ST LANCASTER PA 17603

THIS WELL IS TO BE EDUCATED IN CECIL COUNTY, NEAR THE TOWN OF CHARLESTOWN

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

THIS WELL WILL NOT REPLACE ANOTHER WELL.

SPECIAL CONDITIONS

LE LOCATE HELL AT LEAST 50 ET. FROM ANY SEWAGE DISPUSAL SYSTEM.

THE ABOVE CONDITIONS FROM CODES ON APPLICATION

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	WATER RESOURCES ADMINISTRATION STATE OFFICE BLDG. ANNAPOLIS, MD. 21401 SWELL COMPLETION REPORT
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159

PERMIT TO DRILL WELL

ESSUE-DATE (09228/JR

PERMIT NUMBER- CE-73-2724

ISSUED TO DRILLER-

DRILLER ID. NUMBER-KIRK, VERNON W

RFD 1 PERRYVILLE MD 21903

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WELL TO BE OWNED BY-

PASCAL, VIRGINIA GREENBANK RD CHARLESTOWN MD

THIS WELL IS TO BE LOCATED IN CECIL COUNTY, NEAR THE TOWN OF CHARLESTOWN

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

THIS WELL WILL REPLACE A WELL WHICH WILL BE A STANDBY.

LOCATE WELL AT LEAST 50 FT FROM ANY SEWAGE DISPOSAL SYSTEM.

THE ABOVE CONDITIONS FROM CODES ON APPLICATION

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PERMIT TO DRILL WELL

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PERMIT NUMCEP- CE-73-2851

ISSUED TO DRILLER-

KIRK, VERNON W RFD 1 PERRYVILLE MD 21903 DRILLER ID. NUMBER-

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WELL TO BE OWNED BY-

GARBER, CARL W LANCASTER PA

17603

THIS WELL IS TO BE LOCATED IN CECIL COUNTY, SUBDIVISION, SECTION-

. LOT- 26 .

NEAR THE TOWN DESCHARLESTOWN

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

THIS WELL WILL REPLACE A WELL WHICH WILL BE A STANDBY.

FOR LOCATE WELL AT LEAST 50 ET. FROM ANY SEWAGE DISPOSATE SYSTEM

THE ABOVE CONDITIONS REPOR GODES ON APPLICATION

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WATER RESOURCES ADMINISTRATION

TAWES STATE OFFICE BLDG., ANNAPOLIS, MD. 21401

WELL COMPLETION REPORT Figures Tiber - Tree THE PARTY NO PUUD NG TEST BC nown sainds o TYPE OF PUMPED USED IC Unite sand 10 5 SUBUERNIBLE J 167 VPC OF BUMP IWRITE APPROPRIATE SET ABOVE: A. C. . P. S. S. . CHACTITY! SCREEN RECORD PUMP HORSE POWER CASING HEIGHT ICHCLE APPROPR ATE LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH AS SU BEDTIE JAMES, AND ON OTHER LAST MARKED INDICATE NOT LESS THAN TWO DISTANCES WEATUREMENTS TO WELL! Aby OSCOTIC



PERMIT TO DRILL WELL

155UE DATE = 04/03/79

PERMIT NUMBER - CE-73-2902

ISSUED TO DRILLER-

SHORE WELL DRIES INC

DRILLER ID. NUMBER- 138

CECILTON MD 21913

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WELL

BUSTIC. STEPHEN BURNT BARN RD PERRYVILLE MD

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THIS WELL IS TO BE LOCATED IN CECIL COUNTY, NEAR THE TOWN OF CHARLESTOWN

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

THIS WELL WILL NOT REPLACE AND THER WELL.

SPECIAL CONDITIONS

PAILLIAE TO COMPLY WITH THE FOLLOWING CONDITIONS WILL CAUSE THIS PERMIT TO BECOME HULL AND YOUR

IL LOCATE WELL AT CEAST, 50 FT. FROM ANY SENAGE DISPOSAL SYSTEM.

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STATE CONTRACTOR	MI PART OF AVERTOR	

STATE

STATE OF MARYLAND
DEPARTMENT OF NATURAL RESOURCES
WATER RESOURCES ADMINISTRATION
TAWES OFFICE BUILDING, ANNAPOLIS, MARYLAND



PERMIT TO DRILL WELL

ESSET DATE: 05/45/79 POLDA YA PERHIT NUMBER- CE-73-2957

ISSUED TO DRILLER-

SHORE WELL DRLRS INC

DRILLER ID. NUMBER- 138

CECILTON MD 21913

THE ABOVE NAMED OR ILLER IS HEREBY AUTHORIZED TO DRILL A WELL

CHESTNUT PT MARINA CARPENTERS PT RD PERRYVILLE MD

THIS WELL IS TO BE LOCATED IN CECIL COUNTY, NEAR THE TOWN OF CHARLESTOWN

THE WATER IS TO BE USED FOR A COMMERCIAL / INDUSTRIAL SUPPLY.

THIS WELL WILL NOTEREPLACE ANOTHER HELL.

SPECIAL CONDITIONS

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- PROVIDE OPENING FOR TAPE MEASUREMENT OF MATER LEVELS (MIN.

 INSIDE DIAM. OF ONE HALF INCH! SEALED BY REMOVABLE CAP/PLUG.

 INSIDE DIAM. OF ONE HALF INCH! SEALED BY REMOVABLE CAP/PLUG.

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NUMBER = CE66GAPO 20

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HERDERI MESACHS DIRECTOR, BARYLAND WATER RESOURCES DADMINISTRATION STATE OF MARYLAND
WATER RESOURCES ADMINISTRATION
TANES STATE OFFICE BLDG., ANNAPOLIS, ME TANES STATE OFFICE BLOG., ANNAPOLIS, MD. 21401 THE NUMBER IS TO BE PURCHED TO SEE THE PURCHED TO S WELL COMPLETION REPORT DEPTH OF WELL DATE RECEIVED TO ST FOOT! DRILLERS IDENTIFICATION 45. L OWNER Chestnut Pt Marina
POST OFFICE -C 3 WELL DESCRIPTION -GROUTING RECORD TATE THE BIRD OF FORMATIONS PERSTRATED. THEIR COLON, DEPTH. THITCH COSTAND IF WATER BEASING PUMPING TEST TO STATE STATE OF THE STATE OF CEMENT C M SENTONITE CLAS MOURS PUMPED ITO NEAREST HELD 0/2 top soil
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SELTIC JAMES. AND PRE STRICK LAND
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PROJECTE HERS TO WELL).



A STANDARD CONTRACTOR

PERMIT TO DRILL WELL

DATE 07/18/19

PERMIT NUMBER- CE-73-3052

ISSUED TO DRILLER-

SHORE WELL DRLRS INC

DRILLER ID. NUMBER- 133

CECILTON MD 21913

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WELL TO BE OWNED BY-

FREEDY, JOHN 9108 ABIGIAL DR BALTIMORE MD

THIS WELL IS TO BE LOCATED IN CECIL COUNTY, GREEN BANK SUBDIVISION, SECTION-NEAR THE TOWN OF CHARLESTOWN

, LGT-

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

THIS WELL WILL NOT REPLACE ANOTHER WELL.

SPECIAL CONDITIONS

LOCATE WELL AT LEAST 50 FT. FROM LANY SEWAGE DISPOSAL SYSTEM.

THE ABOVE CONDITIONS FROM CODES ON APPLICATION.

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AND PASSOURCES

ADRIA STRUCTURE

EHERGENCY NO. (Il any) STATE OF HARYLAND
WATER RESOURCES ADMINISTRATION
TAWES STATE OFFICE BLDG, MANAPOLIS, MARYLAND 2160: CE-73.3062 THE BUNNER IS TO BE PUNCKED. S.C. 18: 783: 1070 APPLICATION FOR PERMIT TO DRILL WELL MINER FREEDY, John BUL 16 1979 STREET 9108 AbigIAL DAIVE PAFT. 1-C AlTimore MARY LAND DIRECTION FROM TOWN N E SCHTHEAST 5 6 100 TF SHOWING LOCATION OF WELL IN MELATION TO VESTER TO WATER MORTH IN THE DIRECTION OF THE ARROW. AND DESCRIPTION OF THE ARROW. AND DESCRIPTION OF THE ARROW AND DESCRIPTION OF THE ARROW AND THE MELL LOCATION IN THE FOLLOWING THE WELL LOCATION MAP. PRIVATE PATER COMPANY SOME TE SEPTE OF VELL PROTECT PROPERTY OF A LEE

STATE OF MARY LAND WATER RESOURCES ADMINISTRATION TAWES STATE OFFICE BLOG., ANNAPOLIS, HD. 31401 TENIS NUMBER 15-TO SC PUNCHED WELL COMPLETION REPORT 10/19/79 ----132 STO HEAMEST FOOT! DRILLERS IDENTIFICATION 47, 1-Freedy, John FIRST NAME Baltimore, Maryland 9108 Abigial Drive POST OFFICE c 3 WELL DESCRIPTION GROUTING RECORD

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38/78 red-white-gray clay
78/92 white clay-sand
92/105 red-white clay
105/125 yellow-white clay
125/132 coarse white-gray
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125/132 coarse white-gray METHOD USED TO WATER LEVELT TOTALLE 32 65 TYPE OF PUMPED USED sand A 4.4 MAIN MONINAL BLANETER TOTAL BEFTH CASING TOP MAIN CASING OF MAIN CASING CYPE THEARCST BENK GREAKEST FOOL J JET PUMP INSTALLED OTHER CASING OF USED! CONTER WILL INSTALL PLANT 112511-127 CAPACITY: A6 4 15 20 5 16 GALLOWS PER MINUTE SCREEN RECORD TT OF HO -------PE PE OT LOCATION OF WELL ON LOT
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PERMIT TO DRILL WELL

TSSUE DATE: 08/01/79 MO DA YR

PERMIT NUMBER - CE-73-3091

ISSUED TO DRILLER-

SHORE WELL DRIRS INC

DRILLER ID. NUMBER- 138

CECTLTON MD 21913

THE ABOVE NAMED OR ILLER IS HEREBY AUTHORIZED TO DOILL A WELL TO BE OWNED BY -

RITTENHOUSE, NORMAN BURNT BARN RD PERRYVILLE MD

THES WELL IS TO BE LOCATED IN CECIL COUNTY, HEAR THE LOWN OF THARLESTOWN

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

THIS WELL WILL NOT REPLACE AND THER WELL.

COCATE WELL AT LEAST 50 ET. FROM ANY SENAGE DISPOSAL SYSTEM.

THE ABOVE WIND IT TONS FROM CODES ON APPLICATION

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M COCK TO SECTIVE OF THE COCK TO SECTION OF T	722/79 70 PEP. N OF WELL	QE 23091
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	4411 T	
Rittenhouse, N Burnt Bar	orman post office	Perryville, Maryland
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TUSE ADOLYTOWAL SHEETS	OWERS F. TYPE OF GROUTING MATCRIAL ICINCLE NOT WATER DE WATER CEMENT C.M. BENTONITE CLAY. 45 45	HOURS PUMPED THE HEARTS' HOURS
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0/2 top soil 1/15 yellow-white cl	GALLONS OF WATER NO ANNULAR SPACE	METHOR USED TO MEASURE BUCKET
15/30 red-white clay	sand Seat OF GROUT SEAL TO SEA	WATER LEVELS POINTANCE FROM SANGE
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sand	CASING RECORD TYPES ST CO STEEL CONCRETE	TYPE OF PUMPED USED TIPCLE ASSESSED TO THE PUMPING TEST!
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PERMIT TO DRILL WELL

09/10/19 NO DA YR

PERMIT NUMBER- CE-73-3161

ISSUED TO DRILLER-

PRESTON & HAMILTON 115 N PARADISE HAVRE DE GRACE ND 21078 10. NUMBER- 112

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A HELL TO BE OWNED BY

GIBSON, GEORGE MCHILLAN & COLLINS NORTH EAST MD 21901

THIS WELL IS TO BE COCATED IN CECIL COUNTY, NEAR THE TOWN OF PERRYVILLE

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

THIS WELL WILL NOT REPLACE ANOTHER WELL.

SPECIAL CONDITIONS

PELOCATE WELL AT LEAST 50 FT FROM ANY SEWAGE DISPOSAL SYSTEM.

THE ABOVE CONDITIONS FROM CODES ON APPLICATION

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EMERSENCY NO. (It ony) -STATE OF MARYLAND ICE-73- 3161 WATER RESOURCES ADMINISTRATION TAWES STATE OFFICE BLDG. ANNAPOLIS, MARYLAND STACE
APPLICATION FOR PERMIT TO DRILL WELL IN COLS. 3-8 ON ALL CARDS DATE RECEIVED OWNER COL 13 LAST NAME SEP 1 0 1979 eraser c/o McMiller and Collins Builders Post North Fast, MD, 21901-B 1 CONTINUED DRILLER INFORMATION

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8-31-8

CICENSE 112

NUMBER 77 COUNTY HORIVICAN DIRECTION FROM TOWN B 2 HELL INFORMATION 8 4 10: (500, 10.) E HAST HIE HCHTHEAST TC2W W USECTOR VATER MINCLE AN OF WHICH SIDE OF GEAD DISTANCE FROM ROAD

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APPROPRIATE SOX)

34 September Committee State M THE MALE WATER -BRETCH SELOW, SHOWING LOCATION OF WELL IN BELATION 12 AMOUNT HE WITH HORTH IN THE DIRECTION OF THE ARROY FROM INCLUDED TO MEAREST HOAD JUNCTION OR STREAM 18055145 FROM INCLUDED TO MEANS OF AN "Y" THE WELL LOCATION IS THE or bearing EPRODESTEDENTE OF VEGE APPROVINCE DESIGNATION OF THE PARTY OF THE P A THOUGH DE ILLING USED CHARLE AS AND AND THE STREET OF THE STREET OF THE STREET OF THE STREET OF THE STREET OF THE STREET OF THE STREET OF THE STREET OF THE STREET OF THE STREET OF THE STREET OF THE STREET OF THE STREET to the house of the control of the c · ·

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WELL LOG THEM	GROUTING RECORD	PUMPING TEST
STATE THE LIND OF FORMATIONS PENETRATED, THEIR COLON, DEFTE, THIERNESS, AND IF WATER BEARING	TOTALE APPROPRIATE BOX	<u> 202-410-1421</u>
THE CONTRACT PLANT FROM TO MARKE	CEMENT CLAY 9 C	ADJUST PUNITED TO WEATON AND TO THE TOTAL TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TO
100 miles 100 mi	HO. OF BASS 2 NO. OF POUNDS 200	CALLDES MER WHITE TE SEATHER AND THE
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		WATER LEVEL
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0 5.11.15	INSERTO STEEL CONCRETE	TYPE OF PUMPED USED CALL
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	DE COMMETTER FROM TO	BOX - SEE ABOVE: A. C. A. P. S.
		ORTHER WILL INSTALL PLANT
A J	日	CAPACITY:
	SCREEN RECORD	TO HEAREST SALLON!
	ST BR HO	POMP HORSE POWER 37
THE PROPERTY OF THE PARTY OF TH	APPROPRIETE DESCRIPTION STORES	PROP COLUMN LENGTH (HEARCST FOOT) 43
	SECOND STATE OTHER	CASING HEIGHT INTINCE APPROPRIATE TO
	CAN ALCOHOLD WHEN THE CONTRACT OF THE CONTRACT	CANO SURFACE
	CONTROL DEPTH GENERAL PROCE TOOT!	ectow 20
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THE THEORY OF THE SECOND PROPERTY OF THE PARTY OF THE PAR

PERMIT TO DRILL WELL

155UE DATE- 09714/15 - MD DA YR PERMIT NUMBER- CE-73-3164

ISSUED TO DRILLER-

KIRK, VERNON W RFD 1 PERRYVILLE MD 21903 DRILLER
IO NUMBER- 159

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WELL

TANNER, ROBERT L 30 EDGEWATER AVE CHARLESTOWN MD

THIS WELL IS TO BE LOCATED IN CECIL COUNTY,

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

THIS WELL WILL REPLACE A WELL WHICH WILL BE A STANDBY.

SPECIAL CONDITIONS

THE PER WITH THE PER LOWING CONDITIONS WILL CAUSE THIS PERMIT TO SECONE NULL AND VOID

1. LOCATE WELL AT LEAST 50 FT. FRON ANY SEWAGE DISPOSAL SYSTEM.

THE ABOVE CONDITIONS FROM CODES ON APPLICATION

DATE OF SOURCES
ADMIN STRATEGY

STATE OF MARYLAND

WATER RESOURCES ADMINISTRATION
TAWES STATE OFFICE BLDG., ANNAPOLIS, MO
WELL COMPLETION REPORT FOLL IN THE FOL TAWES STATE OFFICE SUDG., ANNAPOLIS, MO 21401 NOV 1 4 1979 PHAPING TEST WALL COMPANY CONTRACT DEPTH OF GROUT SEAL ITO NEARES CASING RECORD Thatesand 50 60 U TYPE OF PUMPED USED A 418 CENTALFUGAL 1 35.7 PUMP INSTALLED OTHER CASING (IP USED) CINCLE APPROPRIATE BOX! CAPACITYT SCREEN RECORD CASING HEIGHT GENELE APPROPRIATE DO -----SEPTIC-TARES, AND/OR OTHER LAND MAPS



PERMIT TO DRILL WELL

ASSOCIONATE LOFZZ/19 LMG DA 34 PERMIT NUMBER- CE-75-3203

ISSUED TO DRILLER-

DIFILIPPO, C JR 5 BRINTON WAY, GLEN KYLE NEWARK DE 19711 DRILLER ID. NUMBER- 25)

THE ABOVE NAMED DRILLER IS HEREBY AUTHORIZED TO DRILL A WELL

NE HASTE HATER PLANT CARPENTERS POINT RD CHARLESTOWN MD

THIS WELL IS TO BE LOCATED IN CECIL COUNTY, NEAR THE TOWN OF CHARLESTOWN

THE WATER IS TO BE USED FOR A COMMERCIAL/INDUSTRIAL SUPPLY.

THIS WELL WILL NOT REPLACE ANOTHER WELL.

SPECIAL CONDITIONS

HING CONDITIONS WILL CAUSE THIS PERMIT TO BECOME NULL AND VOID.

PROVIDE DENING FOR TAPE MEASUREMENT OF WATER LEVELS (MIN.
INSIDE DIAM OF DIE HALF INCH) SEALED BY REMOVABLE CAP/PLUG.
TO FOR TAY MATER SAMPLES MUST BE PLACED BEFORE WATER
ENTERS A TREMENT FACILITY PRESSURE OR STORAGE TANK.

ENTERS A TREMENT FACILITY PRESSURE OR STORAGE TANK.

IDC 16 HELL AT LEAST 50 FT FROM ANY SEWAGE DISPOSAL SYSTEM.

THE ABOVE ACTION ONS SERBIN CODESPON APPEACATION

SKEUNDWATER APPROPRIATION
FERHIT NUMBER - CE79GAP021

THUMASIC ANDREWS
OIRECTOR MARYLAND
WATER RESOURCES
ADMINISTRACTOR

PERENCENCY HOUTH BAY 1658 WATER RESOURCES ALMINISTRATION
TAWES STATE OFFICE SLOT, ANNAULIS, SATTUAGES CE73 3203 APPLICATION FOR PERMIT TO DRIVE WELL MOISTAIDS SECTION OHARLES Morale des Auf DIRECTION FROM TOWN NE WORTHEADT SIF ISS. N HORTH E EAST SUSE FOR VALER CONCLEAPERD PATER SOLD FARMING AMELEULTURE PRESENTION TOISTANCE FROM ROAD
LENTER DISTANCE AND CIRCLE
APPROPRIATE BOX) ... 34 ALSECTORSELOW SHOWING LOCATION OF WELL IN RELATION TO BLANCE STANDSTREAMS WITH NORTH IN THE DIRECTION OF THE APROW, AND GO STANDSTREAMS WITH NORTH IN THE DIRECTION OR STANDAM CROSSING SHOWING FROM WELL TO MEARST ROAD JUNCTION OR STANDAM CROSSING SHOWING CHARLES SHOW LITTLE MEANS OF IR "X", THE WELL LOCATION IN THE STANDAM CROSSING STANDAM WELL LOCATION MAP. To Street PROXIMATE DEPTH OF VELL So away From TO MATICAL MODATES allsouters CHOOCOL DESCRICO DE DE MILLE APRAGRAMATA CENTRA Catalled to The firm to contract monarch STATE BELLEVICE OF ELLIPS OF PURCHERS OF THE BOAT TO BE STATE OF THE BOAT TO B PROPERTY OF THE PARTY OF THE PA

STATE OF HARYLAND
WATER RESOURCES ADMINISTRATION FILL IN THIS FORM COME. TAWES STATE OFFICE BLDG. AHNAPOLIS, MD. 21401 COUNTY 9-0000 WELL COMPLETION REPORT RMIT NO. FROM "" NERM, F TO ?" DEPTH OF WELL (E-7:3203 1CO ORILLERS IDENTIFICATION NO. 1 7-1: Charlestown, MD POST OFFICE GROUTING RECORD WELL HAS BEEN CROUTED (CIRCLE APPROPRIATE BOX) 2 PUMPING TEST BENTONITE CLAY B C COURS PUMPED ITS HEAREST HOUR. METHOD USED TO MEASURE PUMPING RATE BALLONS OF WATER 140 H DEPTH OF GROUT SEAL ITO HEAREST FOOT! WATER LEVEL: IN: DTARGE FROM LARF TO BOTO OF THE TO BOTO OF THE TOTAL OF THE T CASING RECORD TYPE OF PUMPED USED ICINCLE APPROPER FOR PUMPING TEST! O ICLSCRIPE BELSWI C CENTRIFUGAL R ROTARY PLASTIC

PHOMINAL DIAMETER TOTAL DEPTH

TOP [MAIN CASING OF MAIN EASING LEAREST FOOT] S SUBMERSIELE PUMP INSTALLED TYPE OF PUMP SWRITE APPROPRIATE LETT BOX - SEE ABOVE: A, C, J, P, R, S, *, O) CALCONS PCR MINUTE SCREEN RECORD PUMP HORSE POWER
POMP COLUMN LENGTH
(NEAREST FOOT) CASING HEIGHT CHECK APPROPRIATE BOL Poors E ectow) LOCATION OF WELL ON LOT
N. SHOW PERMANENT STRUCTURE SUCR AS BUILDIN
N. STATE TANKE AND OR OTHER LARO MARKS AND
HOLCATE NOT LESS THAN TWO DISTANCES



PERMIT TO DRILL WELL

ISSUE DATE 10/02/19 MI DA YR

PERFLT NURBER- CE-73-3216

ISSUED TO DR TLLER-

DRILLER DIFICIPPO C JR ID. NUMBER-BRINTON HAY, GLEN KYLE

THE ABOVE NAMED OF LLER IS HEREBY AUTHORIZED TO DRILL A WELL TO BE DINED BY

NEWARK UE 19711

PA YNE BARBARA

NORTH EAST ND 21901

NEAR THE TOWN OF CHARLESTOWN

THE WATER IST TO BE USED FOR A DOMESTIC SUPPLY.

TRIS WELL WILL NOT REPLACE ANOTHER WELL.

SPECIAL CONDITIONS

VILLET COCCOUNT WITH THE GOLLOWING CONDITIONS WILL CAUSE T

STEEL IS LIE STEEL STEEL STEEL ANY SENAGE DISPOSAL SYSTEM.

THE I BOY ENDING LEONS FROM CODES ON APPCICATION

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THOMAS C ANDREWS
DINEUTUR WARYLAND
FATER RESOURCES
ADJENISHRATION

WATER RESOURCES ROUNISTRATION
TAMES STATE OFFICE BLDG, ANHAPOLIS, MASSYLAND TIME
APPLICATION FOR PERMIT TO DRILL WELL CE-73 = 3216 Fill is This Chip. LOCATION OF WE GILES FROM TOWN LENTER O IF IN TOWN DIRECTION FROM TORN B 4 ---JA 2 2 1 (DED. 40.) N E HONTHEAST 5 4 M WINDSTHMEST SIM Parameter designation of the content OW SHOWING LOCATION OF WELL IN RELATION 'O NIAF AS WETH HORTH IN THE OFRECTION OF THE APPOW, AND TO NEAREST ROAD JUNCTION OR STREAM CHOSSING 5-0 TO NEAREST ROAD JUNCTION OR STREAM CHOSSING 5-0 TEN MEANS OF AR "E". THE WELL LOCATION IN "46 3 Denomination of the later of th नाति विस्तिविद्यार्थिय प्र STATE OF

STATE OF MARYLAND WATER RESOURCES ADMINISTRATION
TAWES STATE OFFICE BLDG. INNAPOLIS, MD. 21401 FILL IN THIS FORM COM! NUMBER -13 - CT WELL COMPLETION REPORT DEPTH OF WELL CIEI-1731-32.1 BRILLERS IDENTIFICATION NO. 1 2 5 BARBARA POST OFFICE NORTH C 3 PUMPING TEST 2500 DUPTH OF GROUT SEAL ITO HEAREST FOOT WATER LEVELS COISTANCE FROM LAND SUPPACE. WHCH PUMPING 22 TYPE OF PUMPED USED ICINCLE C CENTRIFUGAL R SOTARY 3 SUBMERBING J JET PUMP INSTALLED TYPE OF PUMP INNITE ASPROPRIATE LETTERS. SEE ABOVE: A. C. J. P. R. S. T. O. ORILLER WILL INSTALL PUMP (CIRCLE APPROPRIATE BOX) SCREEN RECORD CASING HEIGHT ICIRCLE APPROPRIATE BOX SI FOOT! LOCATION OF WELL ON LOT Xwill



PERMIT TO DRILL WELL

TSSUE DAVE 07/05/80 NO DA YR PERMIT NUMBER- CE-73-3290

ISSUED TO DRILLER

DIFILIPEO, C JR 5 BRINTON WAY, GLEN KYLE NEWARK DE 19711 ID. NUMBER- 250

THE ABOVE NAMED DE LUER IS HEREBY AUTHORIZED TO DRILL A WELL

CAMPBELL, WILLIAM R 88 SIMMONS LA PERRYVILLE MD

THIS WELL IS TO BE LOCATED IN CECIL COUNTY,

THE WATER IS TO BE USED FOR A DOMESTIC SUPPLY.

THE SOMELL WILL REPLACE A WELL WHICH WILL BE A STANDBY.

SPECIAL CONDITIONS

MNG/CORDITIONS WILG CAUSE THIS PERMIT TO BECOME NULL AND VOI

THE CONTRACT WELL AT HEAST 50 PM. FROM ANY SEWAGE DISPOSAL SYSTEM.

DINE ABOVE CONDUCTIONS FROM CODES ON APPLICATION

THE SELECTION OF THE PROPERTY OF THE

HATER RESOURCES

STATE OF MARY LAND FILL IN THIS FOR I TAWES STATE OFFICE BEDG., ANNAPOLIS, MD. 21461 WELL COMPLETION REPORT DEPTH OF WELL 22 TO NEANEST FOCT WILLAA C 3 GROUTING RECORD HAS BEEN GROUTED. PUMPING TES" DEPTH OF GROUT SEAL (TO REAREST FOOT) CASING RECORD TYPE OF PUMPED USED ICHACLE י דשנ נ PUMP INSTALLED OTHER CASING (in used) 1000000 CASING HEIGHT ICINCLE APPROPRIATE SON LOCATION OF WELL ON LOT
NO SHOW PERMANENT STRUCTURE SUCH AS SUILCINGS.
L'SEPTIC TARRS, AND OR OTHER LAND MAR'S AND
LINGUATE NOT LESS THAN TWO DISTANCES
THE ADDRESS THAN TWO DISTANCES



PERMIT TO DRILL WELL

DATE 05/28/80

PERMIT NUMBER- CE-73-3378 **建设的工作。**

ISSUED TO DRILLER-

DRILLER ID. NUMBER- 159

KIRK, VERNON W

RFD 1 PERRYVILLE, MD 21903

THE ABOVE NAMED TO CER IS HEREBY AUTHORIZED TO DRILL A WELL TO BE OWNED BY

LEWIS - LINDA

NORTH EAST MD

THIS WELL IS TO BE LOCATED IN CECIL COUNTY. NEAR THE TOWN OF NORTH EAST

THE WATER STO BESUSED FOR A DOMESTIC SUPPLY.

THESE RELEASED THE TOT REPLACE ON THER SHELL.

MAKE

TANK COST THE VIEW TO VIEW TO THE PARTY OF THE VIEW TO

ECTER MARYLAND
LA LA SOURCES

MONTHS RALLON

THE STATE OF THE S

ENERGERC NOTREME HATER HESTURGE ADMINISTRATION ASSESSMENT OF CE 73 - 3378 TAMES STATE DESCRIPTION ANNAPOLIS, MARYLAND 25/60 THE HOUSER IS TO BE PROMED IN COLS. 3-6 OK ALL CARDS! APPLICATION FOR PERMIT TO DRILL WELL 8 3 1 - 2 -- 5 : (TEQ . 40-) COUNTY SUBDIVISION SECTION DIRECTION FROM TOTH WINGLE APPROPRIATE BELL NE NORTHEAST SE SO USE FOR WATER SERVICES HINGLOCATION OF WELL IN RELATION TO HEATER
HOLD IN THE DIRECTION OF THE ARROW, AND IN
THE MAD INNETION OR STREAM CROSSING INTOAND OFFICE THE WELL LOCATION IN THE SELECTION MAP. SCOSTA

TATE OF HARYLAND

WATER RESOURCES ADMINISTRATION

TAYES STATE OFFICE BLDG., ANNAPOLIS, NO. 2149)

WELL COMPLETION REPORT FILL ON THIS FURL COMPLY THIS TO MEET TO TO BE MUNCHED -DEPTH OF WELL CE-173-131378 7-18-80 - 45 - 45 - ATE WELL COMPLETED: 22 - STO MEANEST FOOT! AUG 15 1980 ORILLERS IDENTIFICATION SE. L North POST OFFICE worth Fast CI3 MELL HAS BEEN GROUVED PUMPING TEST TOURSCRIPTION TO FROM TTO MARKET PROMITIONAL SHEETS HOURS PUMPED ITS REAREST HOUR! WATER LEVEL: (0)STANCE FROM LAND 36 23 TYPE OF PUMPED USED ICINCLE A A AIR O DIDESCHISE C CENTRIFUGAL R ROTART BELOW 2 SUBMERS. OF E JET PUMP INSTALLED TYPE OF PUMP INTITE APPROPRIATE LETT DRILLER WILL INSTALL PUMP SIGNOLE APPROPRIATE BOX! SCREEN RECORD CASING HEIGHT IE MELE APPROPRIATE BOX future site of 7 - House CIRCLE APPROPRIATE BOXES

EMERGENCY HO. (IF STY) - STATE OF MAIN STATE	MINISTRAL PRINCIPLE STATE OF THE
OWNER COLIS LAST NAME OWNER COLIS LAST NAME OWNER COLIS LAST NAME	F 01:3
STREET, ING CECIL HUE	Lestown, md.
B 1 CONTINUED DRILLER INFORMATION	2 3 (SEQ. +2.) 6 CEC /
OATE 8-4-80 NUMBER 77	ction 23 Lot Lot Charles Town
RENATURE Neuman Keik MI	LES FROM TOWN IENTER O IF IN TOWN) 73 76 77 76 DIRECTION FROM TOWN (CIRCLE APPROPRIATE BOST)
B 2 1-2-3 (SEC), RO. 3 1	N NORTH E EAST NE RONTHEAST S F 300 PEAS 1
OUE (SINGLE OS DOUBLE HOUSEHOLD UNIT OMLY)	OR WRICH SIDE OF ROAD OCCIRCLE APPROPRIATE SOR!
	OISTANCE FROM ROAD (ERTER OISTANCE AND CIRCLE APPROPRIATE BOX) RAW A BRETCR BELOW SHOWING LOCATION OF WELL IN NELATION TO NEARLY TOWN OADS ARO STREAMS WITH NORTH IN THE GIRECTION OF THE ARROW, AND SIVE OADS ARO STREAMS WITH NORTH IN THE GIRECTION ON STREAM CONSSINCE SHOWN OF AN "E", THE WELL LOCATION IN THE BOX BE. SO
P PRIVATE WATER COMPANY APPROXIMATE DEPTH OF WELL 24 26 26 26 27 26 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 27	RETOR AUSO SHOW, BY MEANS OF AN "R", THE WELL LOCATION MAP.
APPROXIMATE DIAMETER OF WELL METHOD (IF DRILLING USED (CIRCLE ARPROPRIATE METHOD) DRIVEN DRIVEN AIR-PERCUSSION REVERSE-ROTARY (HIDSAULIC ROTARY) REVERSE-ROTARY ORIVE-POINT	2 RT 267
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PERMIT RIVERS CONDITIONS CIE - 73 +3 48 Q	SOX E 1080 NUMBER N 630 O/8 X 8/8
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		STATE OF MARYLAND	THIS REFORT MUST SE SURVEY OF THE STORY SEED SO DAYS AFTER WELL IS COMMISSED
	SEQUENCE NO. WHA USE ONLY)	WELL COMPLETION REPORT	COUNTY
3		FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE	NUMBER OLG
\$	MIS-GUNDER 15 TO BE PUNCHED		PERMIT NO. FROM PERMIT TO DRIED IN I
港市	nte: Received - 10 - 2 - 00	Depth of Well	C = - 12 3 - 3 4 8 0
型以	Paramin of the Control of the Contro	TO NEAREST FOOT) :	Clarent
	15 10		
图:	Wickers Fues	LIE F just name O.	2-lestown, nid
200	WNER Vickers Figs	ve rown_Ch	
S	TREET OR RED 109 C.P.	SECTIONS	LOT
# S	BOLVISION WELL LOG	WELL HAS BEEN GROUTED TO N	C 3
图上	Not required for driven walls	(Curata & coropriate Box)	PUMPING TEST
3	PENETRATED, DE WATER SEARING	TYPE OF CROUTING MATERIAL CEMENT CM BENTONITE CLAY B C	HOURS PUMPED (nearest hour;
- N	THICKNESS AND THEET Check	NO. OF BAGS NO. OF POUNDS 470	PUMPING RATE (gal. per min. 15_
		CALLONIC OF WATER	to nearest qui.)
差:	Topsoil 0	DEPTH OF GROUT SEAL (to nearest 1001)	METHOD USED TO MEASURE PUMPING RATE
35.66	11 0 0	from to tenter of the form surface)	WATER LEVEL distance from long writing
	Ol Ow 11 Said	CASING PECCED	BEFORE PUMPING
	raravel 3011	types (ST) CO	WHEN PUMPING
1	redclay 2045	appropriate	TYPE OF PUMP USED (for test
2	Carello	Below PLASTIC OTHER	A aur P piston I turbind
	dite clay 45 75	rename z	G other
靈	* sand _	MAIN Nominal diameter Total depth	C centratugal R rotary Quescriue
靈	1/5 00	CASING top(main) casing of main casing TYPE (nearest inch) (nearest foot)	S submersible
	white sand	[SIT 6 90]	I ist
3		30 A: E? 30 30	2:10-
臺		E OTHER CASING (if used)	- Decited
麦		A inch from	PUMP INSTALLED YES
整		c	ORILLER WILL INSTALL PLIMP (CIRCLE APPROPRIATE BOX)
		Î	- PRINCIPAL SPUMP THIS SECTION
鹭		G	MUST BE COMPLETED FOR ALL WELLS EXCEPT HOME USE
差	Salari Arrell	screen type SCREEN RECORD.	TYPE OF PLAND INRITE APPROPRIATE
		ST BR HO	LETTER IN HOX - SEE ABOVE: (A, C, J, P, R, S, T, O)
靈		BRASS OPEN HOLE	CARACITY
		below PLOT	GALLONS PER MINUTE
2		PLASTIC OTHER	PLIMP HORSE POWER
高級		C 2	PUMP COLUMN LENGTH (nealest t)
2		DEPTH (nearest tt.)	CASING HEIGHT (circle appropriate box
	78 75 CO	\$ 5 + 90 95 n	
經過		н	LAND SURFACE
		s :	(never)
遊	The state of the s	E 23 34 18	below)
誕		N =	LOCATION OF WELL ON LC: A SHOW PERMANENT STRUCTURE SUCH AS TANKS AND/OR
	A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED	3* 3* "	SHOW PEHMANENT TANKS, AND/OR BUILDING, SEPTIC TANKS, AND/OR LANDMARKS AND INDICATE NOT LESS LANDMARKS AND INDICATE NOT LESS
3	The last and the state of the s	SLOT SIZE : (NEAREST	
開發開	E ELECTRIC LOG OBTAINED	N DIAMETER (NEAREST	(MEASUREMENTS TO WELL)
150 24	TEST WELL CONVERTED TO PRODUCTION	OF SCREEN 40	
	SHREREST CERTIFY THAT ABOVE-CAPTIONCO "PERMI	COAVEL BACK	是 4 m (10) 建设设置 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
200	TOTALS REPORT IS THUE, OCCUPATE, AND COMPLETED AND THE PROPERTION AND	IF WELL DRILLED WAS	2 - 11
	HIR. 159	FLOWING WELL CIRCLE BOX	Xich
	DRILLERS IDENT. NO.	WRA USE ONLY (NOT TO BE FILLED IN BY DRILLER)	A HOUSE
	1 suno	(E.R.O.S.) WO	(Linese
	DRILLERS SIGNATURE ON APPLICATION	74 79 74	2/27
		OTHER DATA	The septic
Sec.	CHOCOVISOR (sign of driller of July 1	INDICATOR	P. M. wangaling S
-		CASING	

ENERGENCY NO. (IF any)	
STATE UP	CE-73-3520
TAMES STATE OFFICE BLDG.	RMIT TO DRILL WELL FILL IN THIS FORM COMPLETELY
THE COLS. 3-4 ON ALL CAROST.	
TO PRES	
9/2/80 STREET 388 Harrisuile	Rd.
ore 10 1980 post Colora md.	
OFFICE COL 97 DRILLER INFORMATION	B 3 LOCATION OF WELL
B 1 continue	1 2 3 (SEQ. HO.)
PATE AND , 28, 19.80 HUMBER 77 80	SUBDIVISION 23
MANDER FRANKE SONS	SECTION " 1 1 1 1 1 1 1 1
BAILLEA LAST HAME	NEAREST TOWN 52
Brown	MILES FROM TOWN ENTER O IF IN TOWN!
B 2 VELL INFORMATION	1 2 3 (SEO. HO.) C
MAXIMUM PUMPING RATE (BALLONS PER MINUTE)	N HORTH E EAST NE PORTHEAST SE SCUTHEAST
AVERAGE DAILY QUANTITY NEEDED (GALLOM PERDAT)	3 SOUTH W WEST H W HORTHWEST S W SOUTHWEST
OR DOUBLE HOUSEHOLD UNIT OMLY)	#SAS WHAT ILDINCH HORTH TOUTH EAST
PASSIBL, ASSICULTURE, IRRIGATION	ON WHICH SIDE OF STAD (CIRCLE APPROPRIATE ROAT N S2 S2 S2
SOUNTHIAL', COMMERCIAL, STATE AND FEDERAL COVERNMENT.	GISTANCE PROM WOAD GENTER DISTANCE AND CINCLE 34 37 37
SEM SOM SCIPAL WATER SUPPLY	APPROPRIATE BOST OF WELL IN RELATION TO NEAPBY "C
P POIVATE WATER COMPANY	ROADS AND STREAM OF HEAPEST ROAD JUNETION OR STREAM CHICK IN "HE BOF EL
	AND THE BOX NOTES
APPROXIMATE DEPTH OF WELL 200 18 TEC	1
ADDOCYMATE DIAMETER OF WELL	
METHOD OF DRILLING USED (CIRCLE APPROPRIATE METHOD) DRIVEN AMERICA) JETTED DRIVEN	well 40 /47
AIR-PERCUSAION ROTART	13/20
A STATE OF THE STA	[E/Sewyo]
REPLACEMENT OR DEEPENED WELLS (CIRCLE APPROPRIATE 30X)	/winch
OTHER MELL WILL NOT REPLACE AN ESISTING WELL THE THIS WELL WILL NOT REPLACE AN ESISTING WELL THIS WELL WILL REPLACE A WELL THAT WILL BE ABANGONED AND SCALED	/ Rd.
S THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANGBY	
THE WILL WILL	
D THIS WILL WILL SEEPEN AR EXISTING WELL OF MELL TO BE REPLACED OR DEEPENED (IF AVAILABLE)	R+.40
AT THE ME BY DEILLER (WAS USE ONLY)	Perryville
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complete CE-73-352C	N 640 0/6 1 6.5
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(AATC 0 9 0 2 8 9	MA USE ONLY
BIS PROPERTY OF THE PROPERTY O	
OR STATE OF THE ST	IGINAL - Section 1000

		Commence of the second	THIS REPORT MUST BE SUSMITTED WITHIN
	SEQUENCE NO. 12	STATE OF MARYLAND	30 DAYS AFTER WELL IS COM CITY
7893	TWRA USE ONLY	WELL COMPLETION REPORT	NUMBER B-0578
The Manual Control of the State of		PLEASE PRINT OR TYPE	egpwit NO.
15 HOLES IS TO BE PULCHE COLS. 3-8 OW ALL CARDS!	14 14 198		FROM PERMIT TO DOULLWELL
	TE WELL COMPLETE		d= - 7 3 - 3 5 2 0
na Use only) DA	DST/GSO	(TO NEAREST FOOT)	4 6 6 1 2 2
0/1/8	13 21 10	Czeorge	
Pont	2.9	tiest name OCA	olora, md.
YNER - DAME	-	wille Rd. TOWN _ CO	
REET OR RED_ 38	8 Harris		LOT
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Call Call		or openhale	W . STTER IN HUX - SEE AGO.
		PRES BRASS OFEN	(A, C, J, P, H, S, 1, W)
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OWNER		- Polit	5025
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The state of the s	STATE OF MARYLAND	THIS REPORT WO'S SE CHARTER WITH THE
MILA WEE OF THE	WATER RESOURCES ADMINISTRATION SES STATE OFFICE BLDG., ANNAPOLIS, MD. 2	COURT STELL
1 2 2 SECO. NO.	WELL COMPLETION REPORT	NUMBER RODING
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	81	28 29 30 31 32 33 34 30 30 27
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	EMERGENCY NO. (H wy)		HEA PERMIT NUMBER
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1 (seq. no.) 6	APPLICATION FOR P	ERMIT TO DRILL WELL	Penamenen
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2/2/81	LICENSE 1/7	SC SUBDIVISION L	
ATE TO COLOR	HAMILTON	A SECTION	40 LOT L
PIRET HAME ON	DRIVES / LAST HAME	NEAREST TOWN L	in oreke
Cha	les H Hametter fr	14	7 N 76.7
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	MERCHICYFEMP NO IF ANY		yana pentun adalah
FILE FO AO SEQUENCE NO.	STATE OF	MARYLAND	CE-73-392
BT 35042 WRA USE ONLY	APPLICATION FOR PE	RMIT TO DRILL WELL	
CTHIS NUMBER IS TO BE PUNCHED	please prin	t or type	fill in this form sense is
N'COLS. S-6 ON ALL CARDS		B 3	LOCATION OF WELL STORES
DATE RECEIVED 5/27/	81	C/Ec	11
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OWNER INFORM		SUBDIVISION TO THE PER	
CLADE	TANIEV	SECTIONL	107
CLARK	FIRST NAME	NEAREST TOWN Comment	15 10000
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other		(was IXA	ARE 30' FROM
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EMERGENCY TEMP NO IF ANY STATE OF MARYLAND CELBILLOSSIS SEQUENCE NO. 81-0228 APPLICATION FOR PERMIT TO DRILL WELL. WRA USE ONLY fill in the form that THIS NUMBER IS TO BE PUNCHED please print or type LOCATION OF WELESTILE N COLS. 3-6 ON ALL CARDS 8 3 2/16/82 DATE RECEIVED 8 (WRA USE ONLY) 13 COUNTY L OWNER INFORMATION SUBDIVISION L DIRECTION OF ABLL FROM TOWN (CIRCLE BOX) DRILLER INFORMATION ON WHICH SIDE OF THEFT CONTINUED ICIRCLE APPROPRIATE BUY 138 15/50 20 DATE . DISTANCE FROM BOAL SIGNATURE CIRCLE APPROPRIATE BOX WELL INFORMATION B 2 SHOW LOCATION OF WELL WITH APPROX. PUMPING RATE (GAL PER MIN) __ AN "X" IN THIS BOX -AVERAGE DAILY QUANTITY NEEDEO (GAL. PER DAY) -USE FOR WATER (CIRCLE APPROPRIATE BOX) HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY) FARMING (LIVESTOCK WATERING & AGRICULTURAL F "IRRIGATION) WRITE THE ROX NUMBER INOUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOY FROM THE MAP HERE OTHER (REQUIRES APPROPRIATION PERMIT) PUBLIC OR PRIVATE WATER COMPANY (REQUIRES 1080 "APPROPRIATION PERMIT AND STATE HEALTH DEPARTMENT 620 APPROVAL) TEST, OBSERVATION, MONITORING (MAY REQUIRE DRAW A SKETCH BELOW SHOWING LOCATION OF HELIN SELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO MEAREST ROAD APPROPRIATION PERMIT) = : APPROXIMATE DEPTH OF WELL JUNCTION ELPEST N 100 APPROXIMATE DIAMETER OF WELL Method of Drilling (circle one) JETTED DRIVE RORED (OR AUGERED) JETTED ROTARY (HYDRAS AIR BOTARY. AIR PERCUSSION CARLE REVERSE ROTARY ROTARY DRIVE POINT REPLACEMENT OR DEEPENED WELLS N THIS WELL WILL NOT REPLACE AN EXISTING WELL THIS WELL WILL REPLACE A WELL THAT WILL BE THIS WELL WILL REPLACE A WELL THAT WILL BE USED ABANDONED AND SEALED NOT TO BE FILLED IN SY DRILLER HEALTH DEPARTMENT APPROVAL 8 4 AS A STANDBY THIS WELL WILL DEEPEN AN EXISTING WELL COUNTY NO. PERMIT, NUMBER OF WELLTO BE REPLACED OR DEEPENED COUNTY NAME STATE HEALTH ELIFAVAILABLE) EHA SIGNATURE Not to be filled in by driller (WRA USE ONLY) APPROP PERMIT NUMBER NORTH 628 EAST WRITE FORCE SIN INITIALS CONDITIONS C E 8 1 0 2 WAA USE ONLY! B 5 SPECIAL CONDITIONS 8-03 The second second

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SITE SUPERVISOR (sign of driller or jour	YMAN TELESCOTE TOR	

SPECIAL CONDITIONS & AS

	STATE OF MARYLAND	THIS PEPORT BOOT BE SOME THE LESS CAYS ATTHE WELL OF COMMITTEE
ICIT 2794 SEQUENCE NO.	WELL COMPLETION REPORT	COUNTY
TO BE PUNCHED	FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE	NUMBER RADIACTION
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(OEP use only)		[C] E - 11 11 - 12 - 2 - 2
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Sine	fust name D	erryville, YD
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	or openhole	TYPE OF PUMP (WRITE APPROPRIATE LETTER IN BOX - SEE ABOVE
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TION PRESENTED HENELL THE BEST OF MY KNOWLEDGE	FLOWING WELL CIRCLE BOX	1 11 12
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SITE SUPERVISOR (sign of driller or journeyman responsible for sixtwork it different from permittee)	CASING INDICATOR	A VOLUME TO STATE OF THE STATE
responses	ORIGINAL	AR Thomas are not as a second

The second secon	and the state of t	STATE OF MARYLAND	THIS REPORT NUCL I'-
A -0050	SEQUENCE NO.	WELL COMPLETION REPORT	COUNTY TONE SUSPENSE
いいいとう		FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE	NUMBER
THIS NUMBER IS TO BE PUR	CHED	PLEASE PRINT ON TITE	PERMIT OF
IN COLS. 50 ont		Depth of Well	FRUNTESHAY ILL
Date Received (OEP use only)	DATE WELL COMPLETE	90	TE 1 - 10 14 1 - 12 1 2 1 2 1 2 2 2 2
No.	6/24/82	12 (TO NEAREST FOUT) 12	81-0339
AUG 2 5 1982	15		37
Carment	ers Pt/ Water	CC. first name Pe	rryville, Md.
OWNER Last name	- h D+	, TOWN	LO7
STREET OR RED_CA	rpenters Pt	SECTION	
SUBOIVISION	Carpenters Pl	WELL HAS BEEN GROUTED Y	C 3
The state of the s	tor driven wells	I/C Annyogyata Box	BI MOING TEST
STATE THE KIND	SE COLOR DEPTH.	TYPE OF GROUTING MATERIAL	HOURS PUMPED (nearest hour. L
THICKNESS AND	F WATER BEARING	SENTONITE CLAT DIC	
DESCRIPTION TUSE		11 " NO DE POUNDS	PUMPING RATE (40) 20 TO
additional sheets if here	T SEATON	GALLONS OF WATER NO ANNULAR SPA	ronearest gas.) METHOD USED TO
			MEASURE
va vallow-whi	te clay-sand	from to to fenter O'st from surface)	WATER LEVEL .divorce from and write.
67 red-white	-gray clay	10.000	BEFORE PUMPING 23
		types ST CO	3.1
7/70 yellow-w 0/90 coarse y	ellow-white	insert appropriate STEEL CONCRETE	WHEN PUMPING
J/90 COGLOG I		(code OII	TYPE OF PUMP USED (for test)
and		PLASTIC OTHER	A air
****		7,575	To sine
		MAIN Normal diameter Total depth	C cantrifugal R rotally Oldescrice
		CASING topimenicasing of man casing	17
infra.		TYPE (Masters)	J jet S submersible
		ST 6 71	27
a party		00 61 67 66 60	
		E OTHER CASING (if used) depth (feet) to	
		inch 170m	PIJMO INSTALLED MES
4		c ST 4 68 80	ORILLER WILL INSTALL PUMP AND IN
		\$	(CIRCLE APPROPRIATE STIMP THIS SECTION
		Z	A SECTION OF THE PROPERTY OF T
		SCOFFY RECORD	
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1 0 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		appropriate STEEL BRASS OPEN	CAPACITY:
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A WELL WAS AS	ANDONED AND SEALEL	Jr 10 11 11 11 11 11 11 11 11 11 11 11 11	BUILDING, SEPTIC TANKS, AND OR
WHEN THIS WEL	- WAS COMPLETED	SLOT SIZE 1_15 :	LANDMARKS TO TELES
E ELECTRIC LOG	OZTAINEO	INEAREST	(MEASUREMENTS TO WELL)
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P WELL			Notes to the second
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TION" AND IN CONFORMAN	MAR 10.17.13 WELL CONSTATICE WITH ALL CONDITIONS STATE PERMIT, AND THAT THE INFORM S ACCURATE AND COMPLETE DGE.	TO IF WELL DRILLED WAS	231.
THE BEST OF MY KNOWLE	K LOUBALE AND COM	FLOWING WELL CIRCLE BOX	
THE BEST OF	138	PEOWING ONLY	A TOTAL SERVICE STORY
DRILLERS IDENT. NO	7	OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER)	APPENDING THE FAMILY
Lane J S	- / June - my	T (E.R.O.S.) WO	The state of the state of the state of
DRILLERS SIGNATUR	E ADDI ICATION	T (E.N.O.S.)	
THE STATE OF THE S	URE ON APPLICATION		
	The or yourneyman	TELESCOPE LOG OTHER DAT	
The man was a second	gn. of ontier or journeyment is it different from permittee!	CASING INDICATOR	

	THIS REPORT MEET HE ME!	
SEQUENCE HO.	STATE OF MARTLAND	
CE SECOLO	FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE	
THIS NUMBER IS TO BE PUNCHED IN COLS. 36 ON ALL CAROS)	Depth of Well FROM FERVIT TO	
Date Received	TED 77	
10 BOS 10101718121	TI (TO NEAREST TOOK	5.
*EB 10 Pp. 0012131915	WE. DOCEMON	-
OWNER TON CAR	R PENTERS PTRO TOWN NORTH EAST, MID.	
STREET OR RED 7.35 CHE	SECTION	
SURDIVISION	WAS BEEN GROUTED (Y) N	
Not required for direct wells	ICHELE AND THE MATERIAL	-
PENETHATEDAND IF WATER BEARING	Falsal GENTONIA CLOS 10101	ì
DESCRIPTION (Use FEET TO Seat	NO. OF BAGS NO. OF POUNDS POUNDS IN PUMPING HATE (gail to nearest gail)	
-12 05	GALLONS OF WATER	7-1-4
ropdir	from surface) water Evel distorce from tone	
clay 5 35	Casing CASING RECOOD BEFORE POWERS	
0 1 55 65	insert SEEL CONCRETE WHEN PUMPING	
sandfile 377	code PL OI Poiston T total	-e
pend course 65	PLASTIC OTHER A LANGE	
	MAIN Nomenal diagneter Total depth C centrifugal R rotary C seasons	-
	CASING too(man)casing of man casing TYPE [nearest inch] (nearest foot) [1] jet [5] submersible	į
Table 1	EH 6 , 70	
***	OTHER CASING (if used)	-
	diameter from PILMP INSTALLED YES	1.2
	DRILLER WILL INSTALL PUMP Y (CIRCLE APPROPRIATE BOX)	
	(CIRCLE APPROPRIATE SECTION OF THIS SECTION OF THE	
	MUST BE COMPLETED	
9 20	screen type or coonhole TYPE OF PONT X SEE ABOVE:	
	msert BRASS OPEN (A, C, J, P, H, S, T, O)	
	code below STEEL BRONZE HOLE GALLONS PER MINUTE (In nearest gallon)	
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	G 2 33 10 30 30 30 500 500 500 500 500 500 500 5	-
CIRCLE APPROPRIATE BOX	LOCATION OF WELL ON LOT LOCATION OF WELL ON LOT A SHOW PERMANENT STRUCTURE SO	JC- 45
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A WELL WAS ABANDONED WHEN THIS WELL WAS COMPLETED	SLOT SIZE	1
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(MUST MATCH SIGNATURE)	OTHER DESIGNATION OF THE PROPERTY OF THE PROPE	
SITE SUPERVISOR: sign of driller or journeym	nitteel CASING INDICATE	2. 166
Sespons to the service of the servic	ORIGINAL	

Pd. \$20.00 10/8/82 - Receip	t #373 - NER
EMERGENCY/TEMP, NO. 17 AN	MARYLAND CE-81-9431
mas hunger is to be punched CT 15 1982 please p	rint or type LOCATION OF WELL PRPLACE BUT
Date Received 11,008,812; CEP Use Cally) OWNER INFORMATION	COUNTY Cecil
RAUSON GLENDON E	SECTION PERRUVILLE
Street or RFD	MILES FROM TOWN INDIFFER OF TRIBET
PERRIULLUS MD Z 1 00 3	DIRECTION OF WELL FROM WOUN TAIN ALL NO
SWADIES H HAMILTON, JR TILLERIUS HO. SO	TOWN (CIRCLE BOX) ON WHICH SICE OF PO45 OF ICE OF PO45 OF ICE OF PO45 OF ICE OF PO45 OF ICE
Preston and Hamilton 175 N. Paradise Road 175 N. Paradise Road 175 N. Paradise Road	- 7
Charles the Jamestin 9/7/82	CIRCLE ADRIBODITATE SO THE STU
PARTE (GAL PER MIN.)	SHOW MAJOR FEATURES OF BOX & LOCATE WELL
AVERAGE DAILY QUANTITY NEEDED (GAL PER DAY) USE FOR WATER (CIRCLE APPROPRIATE BOX) 20 20 20 20 20 20 20 20 20 2	SOURCES OF DRILLING WATER
HOME BINGLE OF COMMERCIAL & AGRICULTURAL	3. WRITE THE BOX NUMBER
INDUSTRIAL COMMERCIAL STATE AND FEDERAL GOV	FROM THE MAP HERE 1
APPROVALION MONITORING (MAY REQUIRE	DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN
TI APPROPRIATE DEPTH OF WELL 100	DISTANCE FROM WELL TO NEAREST ROAD JUNG TO
APPROXIMATE DIAMETER OF WELL ON INCH	N BHOUT
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AIR ROTARY AIR PERCUSSION DRIVE POINT REVERSE ROTARY DRIVE POINT	wer to the Bar Re
REPLACEMENT OR DEEPENED WELLS	well pit an edge of your
THIS WELL WILL REPLACE A WELL THAT WILL BE THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED ABANDONED AND SEALED	NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
THIS WELL WILL DEEPEN AN EXISTING WELL OR DEEPENED	COUNTY NAME COUNTY NAME
(IF AVAILABLE) Single to be filled in by driller (OEP USE ONLY)	DATE ISSUED 8 Wm. Q. Summer 6)
APPROP PERMIT NUMBER	MORTH 629 SSINATION STATE OF THE STATE OF TH
FORCE WRITE INITIALS PERMIT No. CE B 1 - 0 1/2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

C1 2950 SEQUENCY COEP USE	CENO. CNLY)	STATE OF MARYLAND WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE	of CATE AT PROVIDE AND ADDRESS OF THE PROVIDE AT TH
Date Received	COMPLETED	Depth of Well 120 170 NEAREST FOOT)	1 C:El-11-
100	20	Beendon	81-0731
OWNER - last name of the	Pedder	PI Love first name TOWN Fee	yrice , 11
STREET OR RED	1	SECTION	c 3
SUBDIVISION WELL LUG Not required for driven well:		FELL HAS BEEN GROUTED INCIDE Appropriate Box)	
STATE THE KIND OF FORMAT PENETRATED, THEIR COLOR, THICKNESS AND IF WATER SE	DEPTH T	THE OF GROUTING MATERIAL BENTONITE CLAY BE	HOURS PUMPED Incorest No.1.
DESCRIPTION 1939	TO hearing S	O. OF BAGS NO. OF POUNDS	PUMPING RATE (gal. per min. / 5
	S	OF CROUT SEAL (13 Deales: 100)	METHOD USED TO MEASURE PUMPING PATE
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sand 0 =	0	casing CASING OFFORD	BEFORE PUMPING L
1.1		Types Types	WHEN PUMPING
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sand do		PLASTIC OTHER	A · P piston
net 60 9	10	MAIN Nominal diameter Total depth of man casing (nearest toot)	C centrifugal R rotary
cay		TYPE (nearest inch) (nearest too)	J jet S submersible
white po 11	15	37 6 //3	91-
Chucky 1		OTHER CASING (1 used) diameter depth (teet)	- Later
	20/	anch from 10	PHAP INSTALLED YES
white part 115	20 1		ORILLER WILL INSTALL PUNS Y
			IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS
	- 1	SCREEN RECORD	I EVCEPT HOME USE
Gallery 1914		or openhole	TYPE OF PUMP (WPITE APORCYFIATE LETTER IN BOX - SEE ABOVE (A, C, J, P, R, S, T, O)
	0.0	STEEL BRONZE HOLE	CAPACITY: GALLONS PER MINUTE
		PL OT PLASTIC OTHER	(In neerest gallon)
	-	[2]	PUMP HORSE POWER PUMP COLUMN LENGTH (Decress 1)
		DEPTH (nearest ft.)	
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1200			LANDSOFFACE
		23 24 20	- below
CIRCLE APPROPRIATE	BOX		AT THE WELL ON LOT
A WELL WAS ABANDONED A	ND SEALED	1 20 10 22	A SHOW PERMANENT STRUCTURE SUC
WHEN THIS WELL WAS COMP	LEIED	SLOT SIZE :	LANDMARKS AND INC.
E ELECTRIC LOG OBTAINED	PRODUCTION	DIAMETER 6 (NEAREST	(MEASUREMENTS TO WELL)
P TEST WELL CONVERTED TO	W CONCERNATION	OF SCREEN to	10 3
I HEREBY CERTIFY THAT THIS WELL HAS BEE	VELL CONSTRUCTIONS STATED	RAVEL PACK	" " " ditacel
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THE BEST OF MY KNOWLEDGE		LOWING WELL CIRCLE BOX	teso de House s
DRILLERS IDENT. NO.	1/0	OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER:	1004
DRILLERS SIGNATURE	NA CONT	T 1E.R.O.S.) WO	Newwell
EN ATTENT MATCH SIGNATURE UN AFFET	CATION		
a delle of t	ourneyman 🚕	TELESCOPE LOG OTHER DAT	Section 200
SITE SUPERVISOR : Sept of officer of the supervisor of the supervi	m permittee!	CASIIVG	

Pd. 11/4/02 - \$20.00 Receipt No. 436	one state thereto
STATE OF MARYLAND STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL	GE-81-0470
IN COLS 36 ON ALL CARDS) NUV J 130L	os war Replacement
OWNER INFORMATION SUBDIVISION	105
GRIA 9 10 OUNTAIN HILL RD SECTION PERRES	VILLE
PERRIPYVILLE MD 21903 MILES FROM TOWN AND OFFICE OF MILES FROM TOW	OUNTAIN WILL SO
B 1 Continued DRILLER INFORMATION DIRECTION OF WELL FROM TOWN (CIRCLE BOX)	Witer West, acts
Charles N. Hamilton	WHICH SIDE OF ROAD
TISN Pack dise Re 11/2/12	CIRCLE APPROPRIATE SCY.
WELL INFORMATION WELL INFORMATION SHOW MAJOR FEATURES OF BOX & LOCATE WELL SHOW MAJOR FEATURES OF BOX & LOCATE WELL	+ ageil
AVERAGE DAILY OUANTITY NEEDED IGAL PER DAY) AVERAGE DAILY OUANTITY NEEDED IGAL PER DAY) AVERAGE DAILY OUANTITY NEEDED IGAL PER DAY) WITH AN X SOURCES OF DRILLING WATER 1.	Mrin Ro.
HOME SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY) 2. FARMING TLIVESTOCK WATERING & AGRICULTURAL 3.	The state of the s
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APPROXIMATE DIAMETER OF WELL 6 NEAREST INCH	28 44
METHOD OF DRILLING (circle one) JETTED & DRIVEN WELTH SI SI SI SI SI SI SI SI SI S	33.
CABLE CIR-ROT	je.
REPLACEMENT OR DEEPENED WELLS CIRCLE APPROPRIATE BOX) THIS WELL WILL NOT REPLACE AN EXISTING WELL IN THIS WELL WILL REPLACE A WELL THAT WILL BE	To BE FILLED IN BY DRILLER TO BE FILLED IN BY DRILLER TO BE FILLED IN BY DRILLER
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THIS WELL WILL DEEPEN AN EXISTING WELL OR DEEPENED COUNTY AME OFP. 12	STATE MEALTH S. CHICLE BOX 4
Not to be filled in by driller (DEF 05E 01E)	0
WRITE PERMIT NO. CE - 8 1 - 0 4 7 3 NORTH GRID SS GRID 70 71 72 73 74 75 78 79	EXPIRES 45 0 5
SPECIAL CONDITIONS 8—43	

SEQUENCE NO.	STATE OF MARYLAND	THE HARMAN CAR DE CARACTE AND A SECOND CO.
11 2994 (OEP USE ONLY)	WELL COMPLETION REPORT	MANAGE REPLEMENTS
AND AND TO BE MINCHED	PLEASE PRINT OR TYPE	pendictive
THIS NUMBER IS TO BE PUNCHED IN COLS. 36 ON ALL CARDS	Desth of Well	100M1120M114
Date Received 11-4-8 4	22.5	TO E -131 -1 14 14
	TO NEAREST FOOT!	29 18 18 18 18 18 18 18 18 18 18 18 18 18
OV 10 1982 LILIOSIS		81-0473
GRAY	E.G. tirst name Or	12 Wille 12 / 31 18
OWNER Last name	+ 41:11 Rd. TOWN YER	Kyville 18 1 1
STREET OR RED	SECTION	LOT
	11000 1140 21 010 22 02	C 3
WELL Serves wells	WELL HAS BEEN GROUTED (Circle Appropriate Box)	PUMPING TEST
STATE THE KIND OF PORME DEPTH.	- CONTING MATERIAL	HOURS PUMPED (Newsest How Land
PENETRATEO. THE WATER BEARING	CEMENT CIM BENTONILE CO.	1
THE STATE OF	TO NO DE POUNDS	PUMPING RATE (gal. per min.
OESCRIPTION OF STREET	A CALCOS WATER	to nearest gat.)
	DESTRICT OF GROUT SEAL ITO SEATER	METHOD USED TO MEASURE PUMPING BATE
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YELLOW T.	CASING RECORD	BEFORE PUMPING
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GRAVEL 0 75	Insert STEEL CONCRET	TYPE OF PUMP USED (for lest)
	ende PL OT	TV Trues Co
	PLASTIC OTHER	A)air P piston
1,00		Contributed R rotary Offices
11 1/401 27 -		C centrifugal R rotary Oldestri
HARD 62AY 75 225	TYPE (nearest inch) (nearest foot)	[S submersible
HARDGRAY 75 225 6RANITE 25	1 80	S submersible
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SEQUENCE NO.	STATE OF MARYLAND	45 DAYS AFT SA WALL TO
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IN COLS: 36 ON ALL CARDS) DATE WELL COM	Depth of Well	QE-81-0741
DATE Received		<u> </u>
Phot 4 983	TO NEAREST FOOTI	
OWNER TRACK DE	mis + Donna Town - Town -	taveede Gra-C
STREET OR RED _ 515	SECTION	=1-3
SUBDIVISION	GROUTING RECORD -0	C 3
Not required for driven wells	Circle Appropriate Boxi	محديث
STATE THE KIND OF FORMATIONS	TYPE OF GEOUTING MATERIAL	HOURS PURPLY CERMINE PRODUCT
THICKNESS AND IF WATER	CEMEN (SILE	bumbing RATE gar serior 1
	water learing NO. OF BAGS S NO. OF POUNDS 470 GALLONS OF WATER	METHOD USED TO MEASURE PUMPING PATE
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	from 55 52 10 54 80770W 56	BEFORE PUMPING
295	(enter 0 if from surface)	WHEN PUMPING
sea ciay	types (ST) CO	
white clay an sc	inser: appropriate	TYPE OF PUMP USED POR (1-4)
	code PLASTIC OTHER	A air
+ Sand	Total diameter Total depth	C centrifugar R rotary 0 22-2 23
Fightesard 5560	CASING top (main) casing of main casing	
LONG FESCHOOL	TYPE (nearest inch) (nearest	J jet S sucmers D.F
	5 + 6 5 5	Briler
200	OTHER CASING (if used)	PUMP INSTALLED
2 CO. 1	inch trom to	DRILLER WILL INSTALL PUMP YES
		(CIRCLE) (YES OF NO)
		MUST BE COVELETED FOR THE
	screen type SCREEN RECORD	TYPE OF PUMP INSTALLED PLACE (A.C.J.P.B.S.T.O)
	or open ficie (ST) BR HO	IN BOX - SEE ABOVE
	appropriate RAONZE HOLE	CAPACITY GALLONS PER MINUTE
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STE SUPERVISOR (sign, of driller, of journ	ORIGINAL	
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Salat Milke

9/8/8> Bac = \$1211 > Mashu	PROENCY! FAR NO. IF ANY		Gen permit to	the first the second se
SEQUENCE NO. (OEP USE ONLY)	STATE OF	MARYLAND ERMIT TO DRILL WELL int or type	CE-811	(47.73 ***********************************
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STATE ME VIVI MIN M	11/RC	SECTION I	LOT	
PERKY VIIIE	21903	PENNYUI	114	111-
DRILLER INFORMATION		MILES FROM TOWN (ent	er Oil in town 3.8 5	3111
Donald S. Newman	77 License No. 50	B 4	METALVESON	711
1.104		DIRECTION OF WELL FROM TOWN (CIRCLE BOX)	NEW YORK	•
Czcil Tin , Md.	9/1/83	W TE	ON WHICH SIDE OF HO ICIPCLE APPROPRIATE	
WELL INFORMATION		W TOWN		
APPROX PUMPING RATE (GAL PER MIN.)	3 1 Hg		DISTANCE FAC	V. FO40
AVERAGE DAILY QUANTITY NEEDED	المالية المالية	Sw S S	ENTE	SEL D. M. K.
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Not to be filled in by driller (OEP U	SE ONLY)			2
APPROP. PERMIT NUMBER G	A P A			10
FORCE MATTEL PERMIT No. C E -	3 1 - 9 7 7 3			
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	SEQUENCE NO.	STATE OF MARYLAND	THIS REPORT NOW HE DURN THE AS DAYS AFTER WELL 12 THE TOTAL THE
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MAN TO SOON	15 20		
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OWNER	das dame Hill Roa	d	LOT
STREET ON HED		SECTION	C:3
SUBDIVISION	L LOG	WELL HAS BEEN GROUTED Y	A SECULAR DE LA CONTRACTOR DE LA CONTRAC
Not required	for driven wells	(Circle Appropriate 501)	10
	OF FORMATIONS EIR COLOR, DEPTH.	TYPE OF GROUTING WATER !-	HOURS BUNDED CAMES
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10/1/83 Bea 1286 MER EMERGENCYTEMP NO. IF ANY	OES DEDMIT NUMBER
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Perry LC 105sate /2 Sip 15	to Newsest Town
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C. N.C. LIOPS WE'L DRIVE	TOWN (CIRCLE BOX)
2235 BLUEBALL TO	ON WHICH SIDE OF ROAD (CIPCLE APPROPRIATE BU)
Constate De Flyge 10-4-83	
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FORCE IN MITALS PERMIT NO. C B - 8 1 - 0 8 2 7	The state of the s
SPECIAL CONDITIONS	

G 1 5331 SEQUENCE NO. (DEP USE ONLY)	STATE OF MARYLAND WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE	THIS REPORT MUST IN 45 DAYS AFTER DE L. COUNTY NUMBER Replinations
DATE Received DATE Received DATE WELL COMPLETED TO 2 5 8 3	(TO NEAREST FOOT)	CIS-18: 0827
STREET OFFICE	SECTION	carville Me 21
WELL LOG Not required for driven wells STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING DESCRIPTION (Use FEET if water additional sheets if needed) FROM TC bearing	WELL HAS BEEN GROUTED WELL HAS BEEN GROUTED (Circle Appropriate Box) TYPE OF GRUUTING MATERIAL CEMEN CIMI BENTONITE CLAY B.C. NO. OF BAGS C. NO. OF POUNDS 6000 GALLONS OF WATER 32000	HOURS PUMPED PRINCIPLE AND TO RESTRICT TO THE PRINCIPLE AND THE PR
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	MAIN Nominal diameter Total depth of main casing (nearest foot) Solution (nearest inch) OTHER CASING (if used)	C centrifugal R rotary O Mr 61
	screen type SCREEN RECORD or open hole insert appropriate code	DRILLER WILL INSTALL PUMP (CIPCLENTES OF NOT) (F DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL VIELLS EXCEPT HOME USE TYPE OF PUMP INSTALLED PLACE (A.C.J.P.R.S.T.O) IN BOX-SEE ABOVE. CAPACITY GALLONS PER MINISTE
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NET 8913	-SEQUENCE NO.	WELL COMPLETION REPURI	COUNTY Replacement
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	DATE WELL COMPLETED	Depth of Well	CIE'-181 - 09.76
DATE Received	040284	10 NEAREST FOOT	
150 0 00	15	GIRIMA	The second secon
OWNER	RAYSON	POINT Rd. test name TOWN	DERRYVIlle G
STREET OR RED 33		SECTION	/_LO1
SUBDIVISION POPI	AR POINT	GOOLING RECORD ""	C 3
WELL I	LOG driven wells	WELL HAS SEEN GROUTED (Circle Apprapriate Box)	* *************************************
E KIND OF	FORMATIONS	TYPE OF GROUTING MATERIAL	HOURS PLAYED AND STOLE 3
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TON MICO	FEE! It water	NO OF POUNDS 150	to neurost ga METHOD USED TO SOCI Post
additional speets if needed)	FROM: TO bearing		MEASURE PUNPING PAIR OF PRICE A
		DEPTH C= G=00: SEAL NO NESS	WATER LEVEL Cutance The Annual Control
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1.00		insert STEEL CONCRETE	TYPE OF PUME USED (101 18)
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	14.5	MAIN Nominal diameter Total depth	Ccentrifuga: Rirotar
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Pan Clay	40 50	TANE THEMPS.	S supriers 2.0
Reo Clay	50 55	PL FISTU	
GRAY CLAY		OTHER CASING (if used)	PUMP INSTALLED
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		3	ICIRCLE: (YES O: NO! IF DRILLER INSTALLS PUMP THIS SETT ON MUST BE COMPLETED FOR ALL WELLS
			- EVERT HOME USE
		screen type SCREEN RECORD	TYPE OF PUMP INSTALLED PLACE (A.C. J.P.R.S.T.O)
19		or open note ST BR HO	IN BOX SEE ABOVE
		appropriate STEEL BRASS OPEN HOLE	CAPACITY GALLONS PER MINUTE
		code PLOT	(to nearest gallon)
4		PLASTIC OTHER	PUMP HORSE POWEP
(A)		C 2	PUMP COLUMN LENGTH
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	POLICE ID. 2/21/86 Rec.#3693-NER EMERGENCY/TEMP NO. IF ANY	Ogn PCDM.* N In/Cu ?
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	12 1 FR RBTHERFCHE	SEC 1011 45 45
	30 Sirect of Rt D F G 7 3	CHARLESTULN
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	R.J. SEWARD & SEN	DIRECTION OF WELL FROM TOWN (CIRCLE BOX)
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, P.	19/86	(CIRCLE APPROPRIATE BOX)
.3	Dain!	W-1000 E
	B 2 WELL INFORMATION	1 4 4 4
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1.3	AVERAGE DAILY OUANTITY NEEDED 860	5 1-1
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	USE FOR WATER (CIRCLE APPROPRIATE BOX)	
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50.00	F FARMING (LIVESTOCK WATERING	OEP INSERTS
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-94	(CIRCLE APPROPRIATE BOX)	DRAW A SKETCH BELOW SHOWING LOCATION OF THE RELATION TO NEARBY TOWNS AND ROADS AND GIVE RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION
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HO. L/25/86 Rec. #3932-MER EMERGENCYTEMP NO IF ANY	OSS SERVIT GOART OF
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LICE FOR WATER (CIRCLE APPROPRIATE BOX)	HEALTH DEPARTMENT COTTON
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INDUSTRIAL COMMERCIAL, STATE AND PERMIT) OTHER (REQUIRES APPROPRIATION PERMIT)	0 5 0 1 8 6 Charles
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ABOVE CAPTIONED PERMIT, AND THAT. ABOVE CAPTIONED PERMIT, AND THAT. PRESENTED HEREIN IS ACCUMATE AND COMPLETE TO THE SESTING OF MY KNOWLEDGE. DRILLERS IDENT, NO.	F IN BOX 58 OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER)	15325
Verson W. fut	T (E.R.O.S.) WC	50 A 15F4
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SITE SUPERVISOR (sign, of driller or journeyman responsible for sitework if different from permitter	INDICATOR	A CAN SOLD IN THE PROPERTY OF THE PARTY OF
responsible for sitework if different from permits	ORIGINAL	eli egyar (Alau Alau A

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5/27/86 Rec. FL025-MER	EMERGENCY/TEMP NO. IF ANY	OFF PERMIT ABOUT A	
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PETERSON LARK 15 Last Name 755 4 PUL 5 KI	# # Y . S5 SECTION	.or [[3]	8 8 1 7
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R. J. Siew ARD SIEW ARD STORM NAME OF STATE OF S	FINEWARN D-TOWN ICIR		
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1	SUBDIVISION WELL LOG		013
	Not required for driver wells	WELL MAS BEEN GROUTED (Circle Appropriate Box)	control of
-	THE PURPOSE FORMATIONS	TYPE OF GROUTING MATERIAL	HOURS PUMPED (nearest * 1)
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200		glameter depth (feet)	PUMP INSTALLED
F	Manager Co. State	E inch tro- to	DRILLER WILL INSTALL PUMP +5
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			TO DOUGLED INICIAL SPINS IN THE SEE
~ ~			MUST BE COMPLETED FOR ALL WELLS EXCEPT HOME USE
82		screen type SCREEN RECORD	TYPE OF PUMP INSTALLED
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		insert STEEL BRASS OPEN	IN BOX SEE ABOVE
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Seria.	MUST MATCH SIGNATURE ON ATTENDED	70 72	10
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A Secretary respective to the secretaristic of the

642-6116 EMERGENCYTEMP NO IF ANY	Pd. \$40. 10/1/86 Rec. 4508-124
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Date Received	CFC/2
Date Received OWNER INFORMATION	
MCGUIRK MICHAEC	11.00
4596 PULASKY HILL	SECTION
PENRYVILLE MAZ1903	PRINCIPIO FURLACE
DRILLER INFORMATION	MILES FROM TOWN HOLE IL TO HIS HEAR A TANK
	JACKSON STOTION &
JONES + HAMILTON CORCE	DIRECTION OF WELL FROM TOWN GIRCLE BOX.
EN PARAdisalla HAVRE GEGILAGE	_ (N) = 00 NOTE - 121 0 HOAD (1)
15N. SAMORALLA Hamilla & 9-30:26	TW CIACLE ADDRESS NO. 616 NO.
Segnature WELL INFORMATION	₩ <u>30</u>
APPROX. PUMPING RATE (GAL. PER MIN.)	DISTANCE PROMICE
AVERAGE DAILY QUANTITY NEEDED 51010	(=) S 1-1
· (GAL PER UAT)	NOT TO BE FILLED IN BY UMILLE- HEALTH DEPARTMENT APPROVEL
USE FOR WATER (CIRCLE APPROPRIATE BOX) TO HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY)	Cecil
FARMING (LIVESTOCK WATERING	COUNTY NAME
IRRIGATION) TINDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOV	DATE ISSUED // C 5.5
- OTHER MEDUINES	1 0 0 2 8 6 Charle
P APPROPRIATION PERMIT	NORTH 637000 EAST /C. TOO
TEST, OBSERVATION, MONITORING (MAY REQUIRE APPROPRIATION PERMIT)	SHOW MAJOR FEATURES OF
	BOX & LOGATE WELL
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METHOD OF DRILLING (circle one)	WRITE THE BOX NUMBER
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	E 1070 000
other	N 630 000
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(IF AVAILABLE) 41 Not to be littled in by driller (OEP USE ONLY)	RT. 7
	Ki.
- Tal 18 11-12507	
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SPECIAL CONDITIONS OR	and the second s

STOPLES OF THE STOPLES NO.	STATE OF MARYLAND	45 DATO AFTER WELLS COMMENTED	
C1 5183 SEQUENCE NO.	WELL COMPLETION REPORT	COUNTY	
	FILL IN THIS FORM COMPLETELY	NUMBER 19039	
THIS NUMBER IS TO BE PUNCHED	PLEASE PRINT OR TYPE	per state of	
IN COLS. 3-6 ON ALL CARDS)	Depth of Well	FROM PERMIT TERMINE	
DATE Received DATE WELL COMPLETED	22 / / /)	SE 81 - 2507	
DOTIZITION 102386	TO NEAHEST FOOT	7 D N. W. 20	
13 30 V	MICHAEL	n 17/1- 1/1 x 2. 4 . 1	
OWNER last name / 506	Pulaski Hwy Town	PERMULUE, Mid 2010	
STREET OR RED	SECTION		
SUBDIVISION	GROUTING PECORD	C 3	
WELL LOG	WELL HAS BEEN GROUTED IV N		
Not required for driven wells	(Circle Appropriate Box)	PUMPING 765*	
STATE THE KIND OF FORMATIONS STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOP, DEPTH, PENETRATED, THEIR COLOP, BEARING	TYPE OF GROUTING MATERIAL	HOURS RUMPED meares, Long. 47	
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T ACCUSATION OF THE PARTY OF TH	THE CALL OF THE PARTY OF THE PA	MEASURE PUMPING RATE	
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Unite 1	steel CONCRETE	TYPE OF PUMP USED (for test)	
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KED LAY	57 6 60	21	
ie /	50 51 50 56 56		
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ž –	diameter depth (ree)		
11 -	6	DRILLER WILL INSTALL PUMP YES CO	
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BROWN 40 56 WEATHERED 40 56		MUST BE COMPLETED FOR ALL WELL	
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	or open hole ST BR HO	IN BOX SEE ABOVE	
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HARD 56 275 GREEN T GRAY GRANITE	PLASTIC OTHER	PUMP -OPSE POWER	
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AND IN CONFORMANCE WITH ALL CONTRACT INFORMATION	GRAVEL PACKLED WAS	36	
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ORKLERS SIGNATURE ON APPLICATION)	70 72	2	
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	B 1 3969 SEQUENCE NO. (OEP USE ONLY)	APPLICATION FOR PE	86 Rec. #4659-MER MARYLAND ERMIT TO DRILL WELL	[c]s[1] [8] 1] [72.5	582
-	THIS NUMBER IS TO BE PUNCHED	please or	B[3]	LOCATION OF HELL	
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	date Hecenson	IATION	1/1/2/19		
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	hours that the former	1) 1 1625 B	N N N E	ON WHICH SIDE OF HOAD COROLE APPRICATE BOX	
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	(GAL. PER DAT)	29	T	NOT TO BE FILLED IN BY DRILL HEALTH DEPARTMENT APPRO	_EH -/A_
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	IRPIGATION!	AND FEDERAL GOV	OEP SIGNATURE	AL	1/27 57
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	P APPROPRIATION PERMIT AND STATE	E HEALTH DEPARTMENT	NORTH / 2 0 0	DO SIGNATURE	0 0
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	T APPROPRIATION PERMIT)		SHOW MAJOR FEATURE BOX & LOCATE WELL	IRES OF	
	APPROXIMATE DEPTH OF WELL	Q SEET	WITH AN X SOURCES OF DRILLIN		
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	APPROXIMATE DIAMETER OF WELL		2.		
419	METHOD OF DRILLIN	Jetted & DRIVEN	WRITE THE BOX NUM	ABER	
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	REPLACEMENT OR DEEP	ENED WELLS	DRAW A SKETCH BE	LOW SHOWING LOCATION OF VINEY TOWNS AND ROADS AND GIVEN TO NEAREST ROAD JUNCTIC	VE ON
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が記る	S AS A STANDBY D THIS WELL WILL DEEPEN AN EX	ISTING WELL	Thue	M & WELL	
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A STATE OF THE STA	()FAVAILABLE) 41		- +		
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1 6559 SEQUENCE NO. (OEP USE ONLY) THIS NUMBER IS TO BE PUNCHED	STATE OF MARYLAND WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE	THE REPORT AND AND AND AND AND AND AND AND AND AND
ATE Received DATE WELL COMPLETED	Depth of Well ITO NEAREST FOOTS	CE-511 2582
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TREET ON HITU		C 3
WELL LOG NOI required for driven wells STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOP, DEPTH. THICKNESS AND IF WATER BEARING. DESCRIPTION (Use FEET odditional sheets il needed) FROM TO bearing. TO P SCIL 3 TLAY SILT 3 TAMBET AND TO TO THE PROPERTY OF THE PROPER	SECTION GROUTING ASCORD (Circle Appropriate Box) TYPE OF GROUTING MATERIAL CEMENT CM BENTONITE CLAY BC NO OF BAGS NO OF POUNDS JSC GALLONS OF WATER DEPTH OF GROUT SEAL (10 nearest foot) Irom C It 10 JSC CASING RECORD TYPE CASING RECORD MAIN Nominal diameter Total depth CASING TOP Imain casing of main casing the main casin	DUMPING TEST HOURS PUMPED INCAREST PLUIT PUMPING RATE IGAI DOT MIN I COME METHOD USED TO MEASURE PUMPING RATE I COME MATER LEVEL ICISTANCE From land surfaces. BEFORE PUMPING I COME TO THE COME TO
CIRCLE APPROPRIATE LETTER A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED E ELECTRIC LOG OBTAINED D TEST WELL CONVERTED TO PRODUCTION WELL I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED ACCORDANCE WITH COMAR 10:17:13 "WELL CONSTRUCTED ACCORDANCE WITH A LLL CONDITIONS STATED IN 7 AND IN CONFORMANCE WITH A L	SLOT SIZE : \$2.0.: DIAMETER (1) INCAPEST (NOH) OF SCREEN (1) INCH! OF SCREEN (1) INCH! OF WELL DRILLED WAS FLOWING WELL INSERT (NOT TO BE FILLED IN BY DRILLER; T (E.R.O.S.) TO THE SIZE INDICATOR	LOCATION OF WELL ON LOT SHOW BERMANENT STRUCTURE SUCH AS BUILDING SEPTIC TANKS AND UP LANDMARAS AND INDICATE NOT LESS THAN TWO DISTANCES IMEASUREMENTS TO WOLL:

THE BUILDING A STORY SHEET SHEET

	-	12/86	REC. \$4792-MEr	EMERGENCY/TEMP NO IF ANY		eggs Priparis.	
	3 1	3981	SEQUENCE NO	APPLICATION FCR P	MARYLAND ERMIT TO DRILL WELL Int or type	CE SIL	27.11
	TH	IS NUMBER IS TO B	SE PUNCHED	piest	8 3	LOCATION OF SECTION	i
-	Da	te Received	OWNER INFORM	ATION	CECIL	TLTIII.I	Search .
	0	TIVITER	I BIOD I	Sirgt Name 34	TILLE		
		Last Name	WEY RD		SECTION	LOT L	
	J.	10.0	Site of RES	MD21803	PERRYY	区区 1111	
-	57	7	DRILLER INFORMAT,		MILES FROM TOWN (48)	er Ort in town:	
	CH	ARLES !	if Itaniet	Thice se No X	8 4	C=7675	(i) -
. 0	JON	VES 4-17	ANIKE RD	- 1-1AG-	DIRECTION OF WELL FROM TOWN (CIRCLE BOX)		
	110	1 1/12 10	HDISE RD	h. 1/4/27	風上意	ON WHICH SIDE OF B	
		grature 121 -	WELL INFORMATIO	DN	W-(-0w-)-E	T170	
3	B 2	PPROX. PUMPING	RATE (GAL. PER MIN.)	8 12	5, 5,	H 11712	HENNIEL
3	A	VERAGE DAILY OF		000	S 5-9	50 (N 37	DRI FR
2 within I mont	(C	UCE EOE	WATER (CIRCLE APP	PROPRIATE BOX)		NOT TO BE FILLED IN BY	000042
1			GLE OR DOUBLE HOUSE LIVESTOCK WATERING	HOLD UNIT ONLT	Cecil COUNTY NAME		20. VECTO
3	Si .	IRRIGATION	TATE	AND FEDERAL GOV	DATE ISSUED	01055	NSE***
1	z	OTHER (RE	OUINES ALT.	IDEOLUBES	010987	o sone out	
3		PAPPROPRIA	LION PERMIT MILE		NOATH 6 3 5 0	GAID TO 7	
7		T TEST, OBSE	ATION PERMIT)		SHOW MAJOR FEATU BOX & LOCATE WELL	RES OF	
eeee	16.0	APPROXIMATE DE	PTH OF WELL 151	25	SOURCES OF DRILLIN	!	- /6
Ne	- 12 - 12 - 12 - 12 - 12 - 12	A PPROXIMATE DI	AMETER OF WELL	6 NEAREST	2	×	
) **	15 m		METHOD OF DRILLIN	G (circle one) Jetted & DRIVEN	WRITE THE BOX NUM	IBER	
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and and		UL AVAILABLE	-1 41		7	· .	
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	A STATE OF THE PARTY OF THE PAR	STATE OF MARYLAND	AS DAYS AFFER WELL IN THE
200	CLI COOL SEQUENCE NO.	COMPLETION DEPUT	COUNTY
	CI 6891 (OEP USE ONLY)		NUMBER Standoy
	1 23 SE PUNCHED	PLEASE PRINT OR TYPE	
	(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)		FROM PERMIT IN ANT CO. C
	DATE WELL COMPLETED	Depin of Well	で記事し、27/1
			20 20 4
	6/1387	(TO NEARES FOUT)	
	15 15	2 Bob	OFFICE PILE 18 0
	MillEI	tirst name TOWN	EMAY WILLE, ME
	OWNER last name 25 G//	EY RA	401
	STREET OR RFD	SECTION	2 3
	SUBDIVISION	WELL HAS BEEN GROUTED	5 5
	Not required for driven wells	WELL HAS BEEN GROUTED (Circle Appropriate Box)	PUMP, NG "EL"
	DOC SORMATIONS	THRE OF GROUTING MATERIAL	HOURS PUMPED (neares) 71-1 42-1-1
	STATE THE KIND OF COLOP. DEPTH. PENETRATED, THEIR COLOP. DEPTH. PENETRATED, THEIR SEARING		PUMPING RATE IGNI SEL DE Z
	THICKNESS AND IF WATER	CEME	to coarest nat!
	water	NO OF BAGS 18_NO OF PO DS 1692	THE THE PROPERTY OF THE PROPER
100	additional sheets if needed) FROM TO Searing	911	LIEACHDE PHIMPING BAIL L. L.
		DEPTH OF GROUT SEAL (to neares: 100)	WATER LEVEL idistance from land surface.
	122.11	from ()	BEFORE PIJMPING 44
	BROWN	tenter 0 if from surfaces	
	SAND 0 30	200218 2002	WHEN PUMPING 167
	SANG	types SIT CO	
,		Insert STEEL CONCRETE	TYPE OF PUMP USED HOT TEST
		appropriate	A air P piston Titut ne
5/5	RED CLAY 30 50	COOL /	Si Silve.
-	OF PAN 3	below PLASTIC DIRER	
2	KEA CLAY	MAIN Nominal diameter Total depth	Ccentrifugal Riolary Ulderille
		CASING top (main) casing of main casing	Zi a marcinia
		TYPE (nearest inch) (nearest foot)	J jet S submersible
7-6	50 68	C+ 7 7/	21
	1 = == (0 == 1/30 00)	5 7	
200	SOFT GREEN 50 68	OTHER CASING IN USECT	PUMP INSTAULES
	Rock	diameter degri to	
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1	Ε		MUST BE COMPLETED FOR ALL WELLS
17	101176		EVOCEDT HOME USE
	11100 / CARE 1/08 161	Screen type SCREEN RECORD	TVOE OF PHMP INSTALLED
	MARAGICER		PLACE (A.C.J.P.R.S.T.O) IN BOX SEE ABOVE
4.5	+ FAAV	or open hore ST BR HO OPEN	CARACITY
	HARDGAEEN 68 167 - + GRAY	appropriate BRONZE HOLE	GALLONS PER MINUTE
	L DANITE	code / PIL OT	ito nearest gallon
	Girin	DELOW PLASTIC OTHER	PUMP HORSE POWER
		a a l	PUMP COLUMN LENGT-
		C 2	(nearest !!)
		DEPTH INCATES! 11.	a unique inicia andiopriate dos
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24	THEREBY CERTIFY THAT THIS WELL HAS BELL CONSTRUCTION		F / \.
			11 12 /00
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	OF MY KNOWLEDGE	1 11 20 11	7 () 4/
100	DRILLERS IDENT, NO.	OEP USE ONLY	V 6 /6
3	A Hamilla 4	(NOT TO BE FILLED IN S	House /
2	CALLED TO SERVICE TO S	T (E.R.US)	1: 1
7	OFILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)	70 72	10
1	(MUSI MATORI SIG	THE POOR LOG OTHER DATA	
1	SITE SUPERVISOR (sign, of driller or journeyman		A BALL MINE A
100	SITE SUPERVISOR (SIGN.		

			74-4494	EMERGENCY/TEMP NO. IF ANY	Pd. \$40. \$12/29/5	S Red. PRINCE
	В		SEQUENCE NO.	STATE OF	MARVIANO	[de [8]1] 12720
1	1 6	THIS NUMBER IS TO B	E PUNCHED	please p.	B 3	LOCATION OF WELL
-		N COLS. 36 ON ALL C. Date Received				TITTIII E8816
	í	0 1 0 9 8 7	OWNER INFORM	ATION	CECTAL	
		TATELB	OGER	The Marrie		
	(15 Last Name	MEM MOD		SECTION I	LOT LILL
		55 516	Street or AFU	11001003	PERRYVI	THE TILL
		PEARYV	MAH	10 State 12 210 16	S. NEAREST UNA	[2]
1		57	DRILLER INFORMATI		MILES EROM TOWN , ent	the first towards
1	10	HARLESL	HAMILTO	17 License No Ri	9 4	CALET ES
	10	Driller & Name	AMILTON	101	DIRECT ON OF WELL FROM	TO I
	90	FILM HAME PARF	ADISE RD	N NO-	- 1	THE SIDE OF HOAT
3	11	Aggress G L	Ham iltue	h. 1/5/37	1 July 1 July 1	ICIACLE APPROPRIATE BLV VICE TO
	C	Signature	THE COLLATION	ON CON		
	В	2	WELL INFORMATIO		TMT	DISTANCE PROVINCE
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		AVERAGE DAILY OF	UANTITY NEEDED	000	5-7 5 6-9	NOT TO BE FILLED IN BY DHILLER
4		1105 505	WATER (CIRCLE API	PROPRIATE BOX)		HEALTH DEPARTMENT APPHOVAL
	-		THE HOUSE	HOLD UNIT ONLT	Cecil	COUNTY NO
	1	FARMING	1450.0		COUNTY NAME	State HEALT
104	1	IRRIGATION	()	AND FEDERAL GOV.	DATE ISSUED	1 0 ES 25427
1.1		- I OTHER (RE	OUINES ALT	INCOURES	0110987	O SUNATUPE
10 10		I O LAPPROPRIA	TION PERMIT		NO97-1/3/0	O O GRID / CT C OTO TO
	-	APPROVAL	PVATION MONITORIN	G (MAY REQUIRE	SHOW MAJOR FEATU	RES OF
	L	APPROPRIA	ATION PERIOD		BOX & LOCATE WELL	- A Substitution
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			METHOD OF DRILLIA	Jelleo a	WRITE THE BOX NUN	BER E
341	1	BORED (or Aug	AIR.PERcussion	ROTARY (Hydraulic Rotary)	FROM THE MAP HELL	
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大学の様でないながらできて、大学の様々なないない	37	other	LACEMENT OR DEEP	ENED WELLS	DRAW A SKETCH BE	LOW SHOWING LOCATION OF WELL IN 3Y TOWNS AND ROADS AND GIVE 11 TO NEAREST ROAD JUNCTION
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7	1. N	THIS WEL	LL WILL REPLACE A WE	LL THAT WILL BE USED		25
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変べ	ない	PERMIT NUM	BER OF WELL TO BE AL	52		Mo CINT
4. a.s.	1	A STATE OF THE STA	lo be filled in by driller (OEP USE ONLY)		Was a superior
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3,04		APPROP. PERM		1 1011 1 2 7 2 0		
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1	de l'	SPECIAL COND	NTIONS A PORT			Commence of the Commence of th
-			The second secon	0	RIGINAL	
		三人工工工	が、一般の一個などのである。	Drawn Market Co.		

	STATE OF MARYLAND	THIS REPORT WEST OF TURNEY OF THE STATE OF T
SEQUENCE NO.	COMP! FTION REPORT	COUNTY
1 6900 SECULIA ONLY)	THIC EDRM COM CETTER	MUMBER BODIC
THIS NUMBER IS TO BE PUNCHED	PLEASE PRINT OR TYPE	TOTAL Properties
N COIS 38 ON ALL OF	Depth of Well	FMA - 19 1 1 1 2 2 2
DATE WELL COMPLETED	22/7/5/0 1 *	[C E -18]1 2.7.20
DATE Received A 1 7 1 1097	TO NEAREST FOOT	
AN 1 8 193 () (A) 17 18 18		
TATE	ROGER Wist name TOWN	PENNYULLE 11-4-
OWNER last name 55 G	Ilop Ra	PENNYVILLE Mede
STREET OR RFD	7 350110	C 3
SUBDIVISION WELL LOG	WELL -AS BEEN GROUTED Y	
Not required for driven wells	Corne Appropriate BOX1	POMPING TES"
OF FORMATIONS	THE DE GROUTING MATERIAL	HOURS PORCED Medical Po.
PENETRATED, THEIR COLOP, DEPTH, PENETRATED, THEIR GOLOP, DEPTH, THICKNESS AND IF WATER BEARING	CEMENTICIM BENTONITE CLAY BIC	PUMPING HATE IGHT DE TITE
FEET AND WATER I	NO OF BAGS _ NO OF POUNDS 1504	METHOD USED TO BUCKET + WATER
DESCRIPTION (Use additional sheets if needed) FROM TO bearing	GALLONS OF WATER	THE PROPERTY OF THE PARTY OF TH
addition as	DEPTH C= GROUT SEAL (to nearest 5001)	WATER LEVEL Idialarice from land sural e
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	trom SP 52 acriov sa tenter 0 it from surface)	
SAND 0 35	casing CASING RECORD	WHEN PUMPING UISO
	(types) ST CO	
	STEEL CONCRETE	TYPE OF PUMP USED that tests
	aspropriate PL OT	A air P piston I turbine
REL C/M 35 55	DEION PLASTIC OTHER	27 O other
RED CLAY 35 55		C centriluga: Rictary Oldes :::De
	MAIN North casing of main casing	
	TYPE (nearest inch) (nearest foot)	J jei S submersité
		27
	53 64 66 75	
1140/ KASTA 55 250	OTHER CASING (if used)	PUMP INSTALLED
HARD GREEN 55 250 GRAY GRANITE	diameter depth feet/	- 1 (5) mus - was (5)
+	E T	DRILLER WILL INSTALL PUMP YES (NO)
		(CIRCLE) HYES OF NO) IF DRILLER INSTALLS PUMP THIS SECTION IF DRILLER INSTALLS PUMP THIS SECTION
FRAY ORANITE		MUST BE COMPLETED TO
0,21	Screen type SCREEN RECORD	TUDE OF PLIMP INS. ALLES
	The state of the s	PLACE IA.C J.P.R S.T.OI IN BOX-SEE ABOVE
	or open asie ST BRASS OPEN	2.24677
	RRONZE HOLE	GALLONS PER MINUTE
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	Delow PLASTIC OTHER	PUMP HORSE POWER
	C 2	PUMP COLUMN LENGTH
	1 2 DEPTH(nearest ft)	(nearest 1:) CASING HEIGHT (circle appropriate pox
	1/10/1/1/1/250	And and and
	E. H. O. C. L.	LAND SURFACE
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	I CONTRACTOR	LOCATION OF WELL ON LOT
CIRCLE APPROPRIATE LETTER	E 1	A STRICTURE SOUTH
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E ELECTRIC LOG OBTAINED	DIAMETER	MEASUREMENTS TO WELL
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AND IN COMPONMANCE WITH ALL CONDITIONS STATEMENT AND IN COMPONMANCE WITH ALL CONDITIONS STATEMENT AND IN COMPLETE TO THE BE PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BE	FLOWING WELL INSERT	500
OF MY KNOWLEDGE	F IN BOX 68 50	
110 1 0		
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Charlest Hamile	OEP USE ONLY	red.
Charlest Hamile	OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) WO	cilley red.
BRILLERS SIGNATURE ON APPLICATION	OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) WO TO SECOND LOG OTHER DATA	Gilley red.
Charlest Hamile	OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) TO DESCRIPTION OTHER DATA OTHER DATA	Gilley red.

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8436 SEQUENCE NO. STATE OF M. APPLICATION FOR PER	ARYLAND SMIT TO DRILL WELL CELL 12 1 2 987
	LOCATION OF WELL
Date Received OWNER INFORMATION	CEC14 11 11 1 58928
DIETER FRANK	ARVE MUSTISTY
191 JACKS ON STATIONS	SECTION LOT LOT
Place V, LLG Md 21903	CLA STATE OF BUILDING
DRILLER INFORMATION	MILES FROM TOWN (enter Oil of town)
CONSTANTINE DIFIL, py & 950	DIRECTION OF WELL FROM
FAQUAPUR INC	TOWN (CIRCLE BOX)
2235 /3/10/10	ON WHICH SIDE OF ROAD CIPCLE APPROPRIATE SO.
Constantine Ly Date	
WELL INFORMATION APPROX PUMPING RATE (GAL PER MIN.)	DISTANCE FROM HOAD
AVERAGE DAILY OUANTITY NEEDED 800	ENTER FT OF MI TI
(GAL PER DAY)	NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
USE FOR WATER (CIRCLE APPROPRIATE BOX) OD OME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY)	Cecil
FARMING (LIVESTOCK WATER	COUNTY NAME STATE HEALTH
INDUSTRIAL COMMERCIAL STATE AND PERMIT) OTHER (REQUIRES APPROPRIATION PERMIT)	SIGNATURE DATE ISSUED OLO 6 0 1 8 7 Chal 5 5 12/2/87
PUBLIC OR PRIVATE WATER CONTROL OF THE PROPRIATION PERMIT AND STATE HEALTH DEPARTMENT	0 6 0 1 8 7 CO SIGNATURE AS TO 10 0 0 GRID 10 0 0 0 0 0
APPROVAL). JEST, OBSERVATION, MONITORING (MAY REQUIRE APPROPRIATION PERMIT)	SHOW MAJOR FEATURES OF
S 5507	BOX & LOCATE WELL
APPROXIMATE DEPTH OF WELL 15 0 28 FEET	SOURCES OF DRILLING WATER 1. well
THE DIAMETER OF WELL	2.
METHOD OF DRILLING (circle one) METHOD OF DRILLING (circle one) Jetted & DRIVEN	WRITE THE BOX NUMBER FROM THE MAP HERE
BORED (or Augered) AIR-ROTary AIR-PERcussion ROTARY (Hydraulic Rotary) DRive-POINT	
CABLE	F /07C 000 000
other REPLACEMENT OR DEEPENED WELLS REPLACEMENT OR DEEPENED WELLS	DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN
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Not to be illied in by driller (OEP USE ONLY)	
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SPECIAL CONDITIONS	Control of the Contro

STATE OF MARYLAND WELL COMPLETION SEPORAL THEN NUMBERS IT DE PRINCETE THEN NUMBERS IT DE PRINCETE THEN NUMBERS IT DE PRINCETE THEN NUMBERS IT DE PRINCETE THEN NUMBERS IT DE PRINCETE THEN NUMBERS IT DE PRINCETE THEN NUMBERS IT DESCRIPTION THEN NUMBERS IT			
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A WHEN THIS WELL WAS COMPLETED SLOT SIZE 1 3 LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES DIAMETER OF SCREEN 56 THAN TWO DISTANCES INCH) THEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTION ACCORDANCE WITH COMAR 10.17.13 "WELL CONSTRUCTION" ACCORDANCE WITH COMAR 10.17.13 "WELL CONSTRUCTION" ABOVE CAPTIONEO FERMIT, AND THAT THE INFORMATION ABOVE CAPTIONEO FERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE ANO COMPLETE TO THE BEST OF MY KNOWLEDGE DRILLERS IDENT. NO.	CIRCLE APPROPRIATE LETTER	S 2 23 24 26 3. 32 39 41 45 47 51	LOCATION OF WELL ON LOT
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5/28/87 REC \$5282 NETENENCYTEMP NO IF ANY	Opens when the second s
STATE OF LOEP USE ONLY) APPLICATION FOR PL	MARYLAND CALL CALALL 2997
THIS NUMBER IS TO BE PUNCHED please pl	B 3 LOCATION OF WALL
Data Received O 5 2 8 B 7 OWNER INFORMATION	
4409663 ROBEAT	GOLDEN BONK
15. Lisal Roma. Conter 6-51 Name	A SUBDIVISION LOT
Sirector RIU	SECTION LOT LOT LOT LOT LOT LOT LOT LOT LOT LOT
TOWSOW Town	MINEAPEST (OAT)
DONALD S. NEWNAM /38	MILES FROM TOWN Jenter 0 if in town 13
PRORE Lell DRILLES	DIRECTION OF WELL FROM TO NEAR WINE TO THE
to recitor, Md. 21913	TOWN (CIRCLE BOX) N ON WHICH SIDE OF POAC
Condos. News on 5/26/57	ON WHICH SIDE OF A TE NO.
B 2 WELL INFORMATION	W TOWN E P Z O
APPROX. PUMPING RATE (GAL PER MIN.)	DISTANCE TOM POAD
AVERAGE DAILY QUANTITY NEEDED / OOO 0 20	NOT TO BE FILLED IN BY ORILLER
USE FOR WATER (CIRCLE APPROPRIATE BOX)	HEALTH DEPARTMENT APPROVAL
AOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY) FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)	Cecil COUNTY NAME
IRRIGATION) INDUSTRIAL COMMERCIAL STATE AND FEDERAL GOV. OTHER (REQUIRES APPROPRIATION PERMIT)	OEP INSERTS
OTHER (REQUIRES APPROPRIATION PERMIT) PUBLIC OR PRIVATE WATER COMPANY (REQUIRES PUBLIC OR PRIVATE WATER COMPANY (REQUIRES	DATE ISSUED 2/4/37
APPROPRIATION PEHMIT AND STATE TO	HORTH 6719000 EAST 0800000
TEST, OBSERVATION, MONITORING (MAY REOUIRE APPROPRIATION PERMIT)	SHOW MAJOR FEATURES OF
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4 NEAREST	SOURCES OF DRILLING WATER 1. Town - Cecil Ton
APPROXIMATE DIAMETER OF WELL	2.
BORED (or Augered) JETTED JETTED JETTED	WRITE THE BOX NUMBER FROM THE MAP HERE
AIR PERcussion ROTARY (Hydraulic Hotary)	CAL
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DERI ACEMENT OR DEEPENED WELLS	THE THE OW SHOWING LOCATION OF WELL IN
(CIRCLE APPROPRIATE BOX) IN THIS WELL WILL NOT REPLACE AN EXISTING WELL	RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION
NI THIS WELL WILL REPLACE A WELL THAT WILL BE Y ABANDONED AND SEALED	DISTANCE FROM WELL TO NEATLEST TO BE BOTH A
S THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY	CREAT
D THIS WELL WILL DEEPEN AN EXISTING WELL	18/
PERMIT NUMBER VELL TO BE REPLACED OR DEEPENDED (IF AVAILABLE) 41 52	to the state of th
Not to be illied in by driller (OEP USE ONLY)	A Hours + 17 / 3
APPROP. PERMIT NUMBER	3/2
FORCE WRITE PERMIT NO. C P - 8 1 - 29 9 7	
SPECIAL CONDITIONS	
	CNATTANA

	STATE OF MARYLAND	43 DAYS ARTER MADE 191 LANCE
CHE 2592 SEQUENCE NO.	STATE COMPLETION REPORT	COUNTY Repl. 8-5-5-5-
The same of the sa	FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE	NUMBER TO THE TOTAL TO THE TOTAL TOT
THIS NUMBER IS TO BE PUNCHED		FROM PROPERTY FOR
IN COLS: 36 ON ALL CARDS) DATE WELL COMPLETED	Cepth of Well	CIR - 811 - 29.97
DATE Received C7 2 387	22 8 9 1 26 TO NEASEST FOOT)	6 20 at a second
017 Z 3 0 17	(TO NEARES) (SOU	The state of the s
Hugges Robert	first name TOWN	Powson, Md
OWNER Hug es, Robert STREET OR RED 205 East Joppa Rd.	SECTION	LOT
SUBDIVISION Greenbank	GROUTING RECORD yes no	C 3
SUBDIVISION	VELL HAS BEEN GROUTED VI NU	PUMPING TEST
Not required for differ wellows	Circle Appropriate Box) YPE OF GROUTING MATERIAL	HOURS PUMPED meatest hour 6
	CEMENT CM BENTONITE CLAY BC	PUMPING RATE (gal ter mir 2 6
PENETRATED, THEIR COCOTS THICKNESS AND IF WATER BEARING Check If water		to nearest gal
DESCRIPTION (Use additional sheets if needed) FROM TO bearing N	O. OF BAGS NON ANNULAR SPACE ALLONS OF WATER ALLONS OF WATER OF GROUT SEAL (to nearest foot)	METHOD USED TO MEASURE PUMPING PATE : DUCKES
G CHARLES OF CO.		WATER LEVEL (distance from land \$2003)
Thom-white-	rcm ft. 10 ft.	BEFORE PUMPING 2
clav	(enter 0 if from surface)	14.0
DETION-WILL	casing CASING RECORD	WHEN PUMPING 40
clay-sallo	types ST CO STEEL CONCRETE	TYPEOF PUMP USED (for test)
yellow-white sand-lay	appropriate DIT	Alger Plaisten
LATER TANKENTER	code below PLASTIC OTHER	" FRIENDS
sand 83 89		C centrifugal R rotary C 34-17-5
3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	CASING top (main) casing of main casing	21
	TYPE (nearest inch) (nearest foot)	jet Ssubmersible
	7 9	-27
	OTHER CASING (if used)	
	diameter depth (reet)	PUMP INSTALLED
	1 1 . 72 84	DRILLER WILL INSTALL PUMP SES NO
330 A 5 A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	S T 25 /3	(CIRCLE) (YES OF NO) IF DRILLER INSTALLS PUMP, THIS SECTION
3 Section 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		MUST BE COMPLETED TO THE
	screen type SCREEN RECORD	TYPE OF PUMP INSTALLED
	or open hole ST BR HO	PLACE (A.C.J.P.R.S.T.O) IN BOX-SEE ABOVE:
	insert STEEL BRASS OPEN	CAPACITY: GALLONS PER MINUTE
MAC WAS A STATE OF THE STATE OF	code PIL OIT	(to nearest gailon)
	below PLASTIC OTHER	PUMP HORSE POWER
	C[2]	PUMP COLUMN LENGTH
TOPPOCA TO THE POCA DEPTH (nearest ft.)	(nearest ft.) CASHNG HEIGHT (circle appropriate 223	
	1 89	and enter seems
	A 3 9 11 15 17 21	LAND SURFACE
	H ₂ T T T T T T T T T T T T T T T T T T T	below)
	S 23 24 26 30 32	49
CIRCLE APPROPRIATE LETTER	45 47 51	LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH AS TANKS AND OF
	N 36 39 41	SHOW PERMANENT STACKS, AND OF BUILDING, SEPTIC TANKS, AND OF LANDMARKS AND INDICATE NOT LESS.
MAS WHEN THIS WELL WAS COME	SLOT SIZE 115 2 3 (NEAREST	N LANDMAHAS ATTANCES
E ELECTRIC LOG OBTAINED TEST WELL CONVERTED TO PRODUCTION	OF SCREEN S6 60 INCH)	(MEASUREMENTS TO WELL)
· WELL SOUTH OF THE STATE OF T	from to	
THEREBY CERTIFY THAT THIS WELL CONSTRUCTION	CRAVEL PACKI	
ACCOROANCE WITH LL CONDITIONS STATEOUT WITH AND IN CONFORMANCE AND IN CAPTIONEO: PERIA. AND THAT THE INFORMATION ABOVE: CAPTIONEO: PERIA. AND COMPLETE TO THE BEST PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST	IF WELL DRILLED WAS FLOWING WELL INSERT	1 /4 11 -/ 11
PRESENTED HEREIN IS ACCURATE OF MY KNOWLEDGE.	FIN BOX 68	130 X -
DRULLERS IDENT, NO.	OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER)	
El Soller	T (E.R.O.S.) WO	
DRILLERS SIGNATURE ON APPLICATION)		
	OTHER DATA	
SITE SUPERVISOR (signs of driller or journeyman all and the different from permittee	TELESCOTE	21/20
responsible for site work in	ORIGINAL	
		and the second s

AVPT/88 Rec. #51660 MER. EMERGENET/EMP	NO IF ANY SERVICE NUMBER OF PERCENT NUMBER OF
THE THE 6948 SEQUENCE NO. STA	ATE OF MARYLAND
THIS NUMBER IS TO BE FUNCHED	please print or type LOCATION OF WELL
Tate Received	B 3 C1995
da 2 7 8 8 OWNER INFORMATION	acoustr acoustr
THE MHELLSER DEFERENT	2) SUPONISON 24 DREEN BANK
85 CHEVINUT PT Rd	SECTION LOT 3
PERRY VILLE MA 2190	CHARLES JOUN
ORILLER INFORMATION	MILES FROM TOWN (enter 0 if in town)
To Driver's Name	MILES VALUE
P.J. SCWARD & SON	1 DIRECTION CO.
1326 a Ld Court No 126/8	ON WHICH SIDE OF HOAD ICIRCLE APPROPRIATE BOY
WELL INFORMATION	W TOWN E
APPROX. PUMPING RATE (GAL. PER MIN.)	DISTANCE TOM FUAD
AVERAGE DAILY QUANTITY NEEDED [600]	T TEAR OF MINISTER
TO THE FOR WATER (CIRCLE APPROPRIA	NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
COURT E HOUSEHOLD UNIT ONLY)	Cecil COUNTY NAME STATE REALTH
FARMING (LIVESTOCK WATERING & AGRICULTURAL FARMING (LIVESTOCK WATERING & AGRICULTURAL FARMING AGRICULTURAL STATE AND FEDERAL GO	
IRRIGATION) INDUSTRIAL, COMMERCIAL STATE AND FEDERAL GOV OTHER (REQUIRES APPROPRIATION PERMIT) OTHER (REQUIRES APPROPRIATION PERMIT)	DATE ISSUED (11/6/88
PUBLIC OR PRIVATE WATER APPROPRIATION PERMIT AND STATE HEALTH DEPARTM	MENT 0 5 0 6 18 40 CO SIGNATURE 1 0 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
APPROVAL) TEST, OBSERVATION, MONITORING (MAY REQUIRE APPROPRIATION PERMIT)	SHOW MAJOR FEATURES OF
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APPROXIMATE DEPTH OF WELL 24 28 FEET	SOURCES OF DRILLING WATER 1. WELL AT OFFICE
APPROXIMATE DIAMETER OF WELL	2.
METHOD OF DRILLING (circle one)	3. DRIVEN WRITE THE BOX NUMBER
BORED (or Augered)	THE PROPERTY OF THE PROPERTY O
CABLE REVerse ROTary DRive	POINT E 1080
other	N 630 - 88
REPLACEMENT OR DEEPENED WELLS (CIRCLE APPROPRIATE BOX)	DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE RELATION TO NEARBY TOWNS AND ROAD JUNCTION DISTANCE FROM WELL TO NEAREST ROAD JUNCTION
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D THIS WELL WILL DEEPEN AN EXISTING WELL	VDED PE
PERMIT NUMBER OF WELL TO BE REPORTED TO SERVICE OF AVAILABLE)	30
The state of the s	7
APPROP. PERMIT NUMBER GAP	
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FORCE INITIALS PERMIT NO. Q E O A 15 15 16 17	CONTRACTOR OF THE CONTRACTOR O
SPECIAL CONDITIONS	

(THIS WIMPER IS TO BE PUNCHED IN COLS. 3-0 OF ALL CAPES)	WATER RESOURCES ADMINISTRATION TAWES STATE OFFICE BLDG., ANNAPOLIS, MD. 21 WELL COMPLETION REPORT DEPTH OF WELL	Academ no. From the Care to the St.
Theb 7, 1989	22 (10 10 10 10 10 10 10 10 10 10 10 10 10 1	C 2-18, 1-13, 6 3, 0 25 29 30 21 12 12 12 15 IDENTIFICATION NO. 2 2 2 3
1.13	23	CFF RY
OWNER FRON HEISER	STOUT PT RO. POST OFFICE	Caryonie me 21465
STREET ON OFS	VELL DESCRIPTION GROUTING RECORD	C 3
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COLOR, DERT	TYPE OF SECUT NO WATERIAL ISINGLE BOLL	HOURS PUMPED 120 SEAREST TO P
TAP 5011 10 6	45. 45 3 . 45. OF POUND? 15.0	PAMPING BASE CALLONS HER MINUTE TO NEARS . " LALOUR
Plan 5,25 6 3	GALLONS OF MATES 75	VECHOOLUSED TO VEASURE PUMPING PATE 334 KCT
SAND CIAY 3 18	DEPTH OF GROUT SEAL ITO HEARCST, FOOT!	WATER LEVEL: IDISTANCE FROM LAND SHALL
SAND GIAVEL 18' 30'	SENTER O IF FROM SURFACE)	MMCN 190 - 1
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FINE WHI	PL 4 128	27 27
CAY PIAY TOPE OUT	E OTHER CASING (IF USED)	TYPE OF HUMP IMPITE APPROPRIATE ACTIONS BOX - SEE ABOVE: A. C. J. P. P. S. T. O'
and mited 90 120	C (INCH) FROM TO	SPILLEP WILL INSTALL TOWN (CIRCLE ADDROUGHTE & SA
CAN 9/49		CAPACITY:
Thy STRingers	SCREEN TYPE SCREEN RECORD	PUMP HORSE ROWER
in To med	STEEL SPASS OREN NOLE	PUMP COLUMN LENGTH (43 47
PARSC WHITE SALD	L PLOT OTHER	CASING HEIGHT :CIRCLE APPECRAIA E 164"
id Coars with 123 130	C 2	BCLOW LANG SUPFACE
The STRING ets 120 125 The TO Med 120 125 ORISC WHITESAND ORISC WHITESAND 12 COAISC WHIT 125 138	1. 2 \$3 (SC2. NO.) S DEPTH INCAPEST WHOLE FOOT! E. P / . /28 /38	LOCATION OF WELL ON LOT
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E ELECTRIC LOS OSTAINED	BLOTSIEE 1. 20 2. 3. INCAPEST INCH!	H
INTEREST CERTIFY THAT I HAVE COMPLIED W	TRALL PERMIT VITALED 138	Hous K
CONDITIONS STATED ON THE ABOVE CAPTIONS TO CONDITIONS STATED ON THE IMPORTATION CO THE THIS REPORT IS TRUE, ACCURATE, AND CO TO THE SECTOR MY KNOWLEDGE, INFORMAT BELIEF.	ION AND IF WELL DEFLLED WAS A	
PT SO INCL	WRA USC ONLY DIOT TO BE FILLED IN ST DRILLEN!	0 to 160
Plot Suns	TELESCOPE TO TO TAKE DATA AVAILABLE	(,
SIGNATURE	CASING	

PO S40 Rec 2042 7/6/84 bpt BEERGENCYTEMP NO. IF ANY	OEP PERMIT NUMBER
B 1160 (OEP USE ONLY) APPLICATION FOR P	MARYLAND ERMIT TO DRILL WELL To hill in this form completely.
THIS NUMBER IS TO SE PENDING	B 3 LOCATION OF WELL Replacement
O 7 O 6 8 1 OWNER INFORMATION	GRECW BANK
15 Last Name 15 Last Name Street or AFD 55	SECTION LAT 40 LOT 41 70
PERKY V 1 1 1 E M. 2 1903	SE NEAREST TOWN
DONALD S. NEWNAM 138 Driller's Name On 10 10 10 10 10 10 10 10 10 10 10 10 10	MILES FROM TOWN (enter 0 if in town)
Shore Well Drillers From Name City Ton, Myd	DIRECTION OF WELL FROM TOWN (CIRCLE BOX) NON WHICH SIDE OF ROAD ON WHICH SIDE OF ROAD
Emall S. Therman 7/3/11	(CIRCLE APPROPRIATE SO
B 2 WELL INFORMATION APPROX. PUMPING RATE (GAL. PER MIN.)	DISTANCE FROM POAD
AVERAGE DAILY QUANTITY NEEDED / 0 0 0 (GAL. PER DAY)	S S S S S S S S S S S S S S S S S S S
USE FOR WATER (CIRCLE APPROPRIATE BOX) OD HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY) F FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) INDUSTRIAL COMMERCIAL, STATE AND FEDERAL GOV OTHER (REQUIRES APPROPRIATION PERMIT) PUBLIC OR PRIVATE WATER COMPANY (REQUIRES APPROPRIATION PERMIT AND STATE HEALTH DEPARTMENT APPROVAL) T TEST, OBSERVATION, MONITORING (MAY REQUIRE	Cecil COUNTY NAME OEP SIGNATURE DATE ISSUED O 7 1 6 8 4 CO SIGNATURE AS NORTH G 9 0 0 0 GHD SIGNATURE AS OFFICE OF THE STATE
APPROXIMATE DEPTH OF WELL 24 C SEST	SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X SOURCES OF DRILLING WATER 1. Town - Cacil Tim
APPROXIMATE DIAMETER OF WELL METHOD OF DRILLING scircle one) BORED (or Augered) JETTED Jelled & DRIVEN AIR - ROTary AIR - PERcussion ROTARY (Hydraulic Rolary) CABLE REVerse - ROTary DRIVE - POINT	2. 3. WRITE THE BOX NUMBER FROM THE MAP HERE
REPLACEMENT ON DEEPENED WELLS (CIRCLE APPROPRIATE BOX) N THIS WELL WILL NOT REPLACE AN EXISTING WELL THIS WELL WILL REPLACE A WELL THAT WILL BE	DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION () 12 12 12 12 12 12 12 1
THIS WELL WILL REPLACE A WELL THAT WILL BE USED THIS WELL WILL DEEPEN AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENDED OF AVAILABLE) 152	
Not to be filled in by driller IOES USE UNLT! APPROP. PERMIT NUMBER S4 FORCE WRITE INITIALS PERMIT No. C 3 - 8 1 - 1 1 3 5 INITIALS PERMIT NO. C 3 - 8 1 - 1 1 3 5	3 70
SPECIAL CONDITIONS	SMOKE SERVICE

	TATE OF MARY! AND	THIS REPORT ME THE SERVICE THE
SEQUENCE NO.	STATE OF MARYLAND WELL COMPLETION REPORT	COLINEY
	- I THIS ENAM COMPLETE	NUMBER Replayment
THIS NUMBER IS TO BE PUNCHED	PLEASE PRINT OR TYPE	6304: 1980 170 07 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
IN COLS. 36 ON ACC OMME	Depth of We	G N - 31 - 11 35
DATE Received	22 8 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 10 to 12 to 110 to 110 to
Tunu of 8 tool		
awasa Bradley Robert	lirst name TOWN PE	rryville, Maryland
OWNER BEAUTICE ROad Road	SECTION	LOT
SUBDIVISIONGreenbank	GROUTING RECORD .4: -02	C 3
SUBDIVISION	WELL HAS BEEN GROUTED Y/ N/	PUMPING 1551
Not required for driven wells STATE THE KIND OF FORMATIONS STATE THE R COLOR, DEPTH.	(Circle Appropriate Box) TYPE OF GROUTING MATERIAL TYPE OF GROUTING MATERIAL	HOURS PUMPED inear-st hour. 8
STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING THICKNESS AND IF WATER DEATH	CEMENT CIM BENTONITE CLAY BIC	PUMPING PATE Igat cer into 275
THICKNESS AND II Check	45 40 NO DE 2011: 35	to nearest gain!
DESCRIPTION (USE	NO. OF BAGS NO OF BACE GALLONS OF WATERO ANNULAR SPACE	METHOD USED TO BUCKET
op soil	DEPTH OF GROUT SEAL (10 heares: 100)	WATER LEVEL (distance from the 155)
iellow-white-	trom tt. to ta serve te	BEFORE PUMPING
Trav Clay	tenter 0 it from surface	WHEN PUMPING 4 2
ER-white Cias	casing CASING RECOPE	
white clay-sand 55 76 parse white sand 76 86	/ insert * STEEL CONCRETE	TYPE OF PUMP (SED) or tests
barse will be	(appropriate) PLI OT	A art Poston
	DEIOW PLASTIC OTHER	Bretary O street
A 25.	MAIN Nominal diameter Total depth	C centrifugat R rotary Control
	CASING top (main) casing of main conti-	Summersion
	TYPE (Hearest	Submersion
	ST 4 7 3	100
3 . X24	OTHER CASING of users	PUMP INSTALLED
	diameter deoth deeth	
	7 72 81	CRILLER WILL INSTACE
3 5-2-1	ST 24	(CIRCLE) (YES OF NO) IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS
		- FUCERT HOME USE
25	screen type SCREEN RECORD	TYPE OF PUMP INSTALLED PLACE IA.C.J.P.R.S.T.OI
	or open note ST BH HO	IN BOX SEE ACCOVE.
Part manifes	appropriate STEEL SHONE HOLE	GALLONS PER MINUTE
	code PL OT	ito hearest galioni
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	à de la companya de l	LANDSUMPAGE
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CIRCLE APPROPRIATE LETTER	E 3 41 45 57	A SHOW PERMANENT STRUCTURE SEC
A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED	N 15 , , ,	BUILDING, SEPTIC TANDICATE NOT LESS
F ELECTRIC LOG OBTAINED	SCOT SEE STEEL IN EAREST	THAN TWO DISTANCES THAN TWO DISTANCES MEASUREMENTS TO WELL!
TEST WELL CONVERTED TO PRODUCTION	OF SCREEN S6 12 (1.C-1)	IMEASUPEMENTS TO THE
WELL SOMETHINGS	ty trom	J / / */*
HEREBY CERTIFY THAT THIS WELL MAS BEEN CONSTRUCTION ACCORDANCE WITH COMAR 10 17.13 -WELL CONSTRUCTION AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN TO AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN TO AND IN CONFORMANCE WITH ALL CONDITIONS AND INCOME.	ON IF WELL DRILLED WAS	(Mous-)
ACCORDANCE WITH ALL CONDITIONS STATEMENT AND IN CONFORMANCE WITH ALL CONDITIONS STATEMENT AND THAT THE INFORMATION ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION AND THE SECOND PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BE	ST FLOWING WELL INSERT	J = , y 35 1 = 1
OF MY KNOWLEDGE.	FIN BOX 68	
DACTERS IDENT. NO. 138	OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER)	and the second s
El / Lal S. O/wman	T (E.R.O.S.) WO	0
DAILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)		
The second secon	TELESCOPE LOG	The second secon
	CASING	
SITE SUPERVISOR (sign, of driller or judities of supervision of driller or judities of supervision of driller or judities of supervision of driller or judities or judities o	ee) ORIGINAL	Control of the Contro

The state of the s

	a. \$1.0. 9/11/81 Rec.#2213-MER	EMERGENCY/TEMP NO. IF ANY	The second secon	GEP PERMIT NUMBER
To the	B J 0148 SEQUENCE NO.	STATE OF APPLICATION FOR PE	RMIT TO DRILL WELL	CE - 8 1 - 1:2:2.3;
· 公司	THIS NUMBER IS TO BE PUNCHED	please pr	B 3	OCATION OF WELL
の	Date Received O 9 1 4 8 2 OWNER INFORMA	ATION	Cecib	B6383
100	PETERSON	LOUIS Eral Name	POPLAR P	01NT B-6353
100	321 POPUAR PO	INT RD 55	SECTION 44 40 L	01 1/45 1/0
110	PERRYVILLE	मुख्या ११ ११ वर्ष	CHARIJEST SINEAREST TOWN	\$ B - 3
	DRILLER INFORMATION S. FRANK	5 I	MILES FROM TOWN tenter 0	
	DRIVER & FRANK DRIVE'S WELL DRIG.	Co.	DIRECTION OF WELL FROM	POPLAR POINT ROAD
		ALTO. Md. 21226	N	ON WHICH SIDE OF POAD ME
100	Walte & Frank	9-12-84	1-9	CIRCLE APPROPRIATE SO.
A	B 2 WELL INFORMATION		w Town E	DISTANCE FAOM HOAD
N. C.	AVERAGE DAILY QUANTITY NEEDED	200	S == 9	ENTER FT or M
空被發出	USE FOR WATER (CIRCLE APPR	OPRIATE BOX)	8 NO	T TO BE FILLED IN BY DRILLER
1963年第二	HOME (SINGLE OR DOUBLE HOUSEH F FARMING (LIVESTOCK WATERING & IRRIGATION)	OLD UNIT ONLY) AGRICULTURAL AND FEDERAL GOV.	Cecil COUNTY NAME OEP SIGNATURE DATE ISSUEC	COUNTY TIC STATE HEAUT- MSERT'S 3/19/85
经已经经济	PUBLIC OR PRIVATE WATER COMPA- APPROPRIATION PERMIT AND STATE APPROVAL)	HEALTH DEPARTMENT	0 9 1 9 8 1 3 5 8 8 8 8 9 9 1 9 8 1 1 1 1 1 1 1 1 1 1 1	SNATURE DE CONTROL OF
No. of Lot, House, St. Lines, St.	T APPROPRIATION PERMIT) APPROXIMATE DEPTH OF WELL (20)	± ≠cet	SHOW MAJOR FEATURES BOX & LOCATE WELL WITH AN X SOURCES OF DRILLING W	
新疆集	APPROXIMATE DIAMETER OF WELL	4 NEAREST	1. 2.	*
學是是我	AIR-ROTary	Jetted & DRIVEN	S. WRITE THE BOX NUMBER FROM THE MAP HERE	
部部	CABLE REVerse-ROTary	DRIve-POINT	1070	000
The state of the s	other REPLACEMENT OR DEEPEN	ED WELLS	DRAW A SKETCH BELOW	SHOWING LOCATION OF WELL IN DWNS AND POADS AND GIVE DEAREST ROAD JUNCTION
P. Web		EXISTING WELL	DISTANCE PROM WELL TO	NEAREST ROAD JUNCTION
Wash Warden	THIS WELL WILL REPLACE A WELL ABANDONED AND SEALED THIS WELL WILL REPLACE A WELL AS A STANDBY	ITIAI MILES -	N A	and and
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	AS A STANDBY	ING WELL	I love	OULTRIE! MILLEY
No. of the last	PERMIT NUMBER OF WELL TO BE REPL	ACED OR DEEPENDED	and in	
N. Carlot	Not to be filled in by driller (OEF	USE ONLY)	1,211,51	
165,036	APPROP PERMIT NUMBER 54	G A P S	MATE POINT REAC	14.
17.55	WRITE PERMIT NO. C E	B 1 - 1 2 2 3 2 73 74 75 76 77 78 78	Noo.	
2004103	8/4 E		GINAL TANKS	Constituting while constitute and some source

		STATE OF MARYLAND	THIS REPORT MUST BE SUBMITTED WERE
3834	SEQUENCE NO.	WELL COMPLETION REPORT	45 DAYS AFTER WELL IS COMAS PE
A		EIL IN THIS FORM COMPLETELY	COUNTY B6383
(THIS NUMBER IS TO BE F	DS)	PLEASE PRINT OR TYPE	posited the
IN COLS. 3-0 OIT HE	DATE WELL COMPLETE	Depth of Well	FROM DERMIT - 197
DATE Received		22 1/2 1/3	CE-81: 1323
10000	092284	(TO NEAREST FOOT)	25 25 65
SEP 21 EQ4	PETERSON	LOUIS - Cost name	CHRRICSTOWN
COMMED	last name 321 Po	PIRE POINT RITIST NAME TOWN	
SUBDIVISION POPL	RE POIN	SECTION	
WELL	LOG	WELL HAS BEEN GROUTED N	C 3
Not required for	r driven wells	(Circle Actrochate Box)	PUMPNO TEN
STATE THE KIND OF PENETRATED. THE	S COLOS UZPIO.	TYPE OF GROUTING MATERIAL CEMENT C M SENTONITE CLAY B C	HOURS PUMPED (meanes) Is an G:
THICKNESS AND IF	LEET ! Check	CEIVIEIVI C IVII	PUMPING RATE IGAI DET DET 7.5
DESCRIPTION (Use additional sheets if needed)		NO. OF BAGSNO. OF POUNDS ASO	to nearest gal) METHOD USED TO A' A A A A
	0 10	GALLONS OF WATER DEPTH OF GPOUT SEAL (to nearest foot)	MEASURE PUMPING RATE IS GAT. DUSEL!
SAND		30	WATER LEVEL (distance Intellegelia)
GRAVEL, SAND		M BOTTOM 56	BEFORE PUMPING 23
SENUEN, Char	10 20	renter 0 if from surface)	WHEN PUMPING 321
+ White Clay		types ST CO	
SAND	20 30	Insert STEEL CONCRETE	TYPE OF PUMP USED for tests
2 × 14.		code / PL OI	Passion I turbers
SAND + ROD		below PLASTIC OTHER	
CIAY	30:40	MAIN Nominal diameter Total depth	C centrifuçal R rotary O idescribe
7		CASING too (main) casing of main casing	
SAND + White		TYPE (nearest inch) (nearest 1001)	Submersible
A B MARTIN DO	40 50	PL 4 50	
CIAY		OTHER CASING (if used)	
Const day	50.57	diameter depth (feet)	PUMP INSTALLED
gRAY CAY		e T T	DRILLER WILL INSTALL PUMP YES NO
A Alexander	57 63 XX	:	(C:RCLE) (YES or NO)
5 AND		8	MUST BE COMPLETED FOR ALL WELLS EXCEPT HOME USE
		screen type SCREEN RECORD	TYPE OF PUMP INSTALLED
S		or open hole ST BR HO	PLACE IA.C.J.P.R.S.T.O'
		inser: STEEL BRASS OPEN BRONZE HOLE	CAPACITY
		coce / PI OT	GALLONS PEH MINUTE
		DE'SW PLASTIC OTHER	PUMP HCRSE POWER
Anna and an an an an an an an an an an an an an		C 2	PUMP COLUMN LENGTH
		DEPTH (nearest ff.)	(nearest ft.)
		0150173	CASING HEIGHT (circle appropriate box
		E 1 21 15 17 21	1 AND SURFACE
-T	T		below (neuro)
		S 23 24 25 30 J2 35	29
CIRCLE APPRO	PRIATE LETTER	IR I I I I I I I I I I I I I I I I I I	LOCATION OF WELL ON LOT
WELL WAS ABANG	DONED AND SEALED	E 3 36 36 45 45 51	SHOW PERMANENT STRUCTURE SUCH 45 BUILDING, SEPTIC TANKS, AND OR
WHEN THIS WELL W		SLOT SIZE . 0203	N. LANDMARKS AND INDICATE NOT LESS
E ELECTRIC LOG OBT	AINEU	DIAMETER 2	THAN TWO DISTANCES
The state of the s	RTED TO PRODUCTION	OF SCREEN 56 W INCH!	L IMEASUREMENTS TO THE
THEREBY CERTIFY THAT THIS WE	LE HAS BEEN CONSTRUCTED IN	GRAVEL PACK From 56 63	ALL STATE OF THE S
AND IN CONFORMANCE WITH AL	L CONDITIONS STATED IN THE	IE WELL DRILLED WAS	mountain Hell
ABOVE CAPTIONED PERMIT	E AND COMPLETE TO THE BEST	FLOWING WELL INSERT	PCP4
OF MY KNOWLEDGE.	5	FIN BOX 58	7 13/00 00
DRILLERS IDENT, NO.	A . mark	(NOT TO BE FILLED IN BY DRILLER)	6 4
/watur a	·	T (E.R.O.S.) W O	1000
DRILLERS SIGNATURE (MUST MATCH SIGNATUR	RE ON APPLICATION)	70 72	10
The state of the s		TELESCOPE LOG OTHER DATA	POPIME
SITE SUPERVISOR (sign.	of driller or journeyman	CASING	
SITE SUPERVISOR (Sign.	different from beinittee	ORIGINAL	The supplied the state of the s

es s	Pd - 140. 9/24/64 Rec. #2233-	SUERGENCY/TEMP NO. IF ANY		OEP PERMIT NUMBER
	8 3 4165 SEQUENCE NO.	STATE OF MARY	LAND	CELSITE TELESTRICE
31.16	The state of the s	APPLICATION FOR PERMIT	vpe	" fill in this term complete.
See. 3	THIS NUMBER IS TO BE PUNCHED	8 3		LOCATION OF WELL
:(6)	Date Received	1 2	ECIL	Replacement
	092484 OWNER INFORM		COUNTY	THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF
10	MEIDLEIN SOND	FIRST NAME	a suspiyision	
17.	15 Lasi Name	I D D	ECTION TO	LOT
	Street or AP2	md2/1903	25	U L E
	PEARYVILLE	25tate : 2:0 /6	O NEAREST 'CWN	9.13 MII
	DRILLER INFORMAT	ION M	ILES FROM TOWN (enter	r O if in Iown)
1.	CHARLES H. HAMILTON	2.0	,	WACKSON STAT - RO.
3.49	JONES & HAMILTON	DIRE	ECTION OF WELL FROM	11 NEAR WHILE HOADS
	FIRM NAME DARADISE IS	20, HOG-	N	ON WHICH SIDE OF BOAD MODE
i.	Adjusts D H Ida illa	9/24/84	NW TW	CIRCLE APPROPRIATE BOYS
S	Signature No Communication Control Control	U. Olie	- > =	5 m
7	8 2 WELL INFORMATION		1	*[2 0]
6	APPROX. PUMPING RATE (GAL. PER MIN.)	à ;2	Sw SE	DISTANCE SELVE HOAD
	AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY)	800	à-0 5 0-1	
3	USE FOR WATER (CIRCLE APP	PROPRIATE BOX)	N H	OT TO BE FILLED IN BY DRILLEP EALTH DEPARTMENT APPROVAL
h	SOUR POUR E HOUSE	HOLD UNIT ONLY)	Cecil	C0077970
6	FARMING (LIVESTOCK WATERING	A AGRICULTURAL 5	OUNTY NAME	STATE -EALT-
2	IRRIGATION)	AND FEDERAL GOV.	EP IGNATURE	INSEPT S TO THE PARTY OF THE PA
-2	OTHER (RECUIRES APPROVI	. W.DEOUUDES	DATE ISSUED	Leader E. Survey 3/2/4/8
^	PUBLIC OR PRIVATE WATER COMP P APPROPRIATION PERMIT AND STAT	E HEALTH DEPARTMENT	43	0 EAST / 0 7 0 0 0
	APPROVAL) T TEST. OBSERVATION, MONITORING	MAY REQUIRE	IORTH 63800	GRID TO TO
12	T APPROPRIATION PERMIT)	! 0	SHOW MAJOR FEATURE	S OF Soull NE
1/2 7	ZETHOE WELL ! SE	Hard Street Committee Comm	WITH AN X	WATER
	APPROXIMATE DEPTH OF WELL	NEAREST	SOURCES OF DRILLING	WATER
1	APPROXIMATE DIAMETER OF WELL	A INCH		
1	METHOD OF DRILLIN	G (circle one)	3.	
B	BORED (or Augered) JETTED	Jetted & DHIVEN	WRITE THE BOX NUMBEROM THE MAP HERE	an .
3	AIR-ROTary AIR-PERcussion	ROTARY (Hydraulic Rolary) DRIVE-POINT		70
-	CABLE REVerse ROTary	e (to / b vestale)	E 2010 (000
E	other		N 6106	WALLER OF WELL IN
0	REPLACEMENT OR DEEPE (CIRCLE APPROPRIATE	NED WELLS	RELATION TO NEARBY	TOWNS AND ROADS AND GIVE TO NEAREST ROAD JUNCTION
1	AND DEPLACE A	N EXISTING WELL	DISTANCE FROM WELL	10 112
-	THIS WELL WILL REPLACE A THE		N A	1 16
-	THIS WELL WILL REPLACE A WEL	L THAT WILL BE USED	= 102	y site
Ę	AS A STANDBY	TING WELL	2.2.	· LL
	D THIS WELL WILL DEE	LACED OR DEEPENDED		W.
	SE (IF AVAILABLE) 41		2.2.	111111111111111111111111111111111111111
The state of	Not to be filled in by driller (O)	EP USE ONLY)	1 30	6/
	APPROP. PERMIT NUMBER	GAP		
	WRITE	- 8 1 - 1 2 3 1	ell have in	hent Youd -
	FORCE WHITE PERMIT NO. CE	72 73 74 75 76 77 78 78	wy you	
	SPECIAL CONDITIONS			Mineral - March Land - 1 - 1 - 1 - 1 - 1 - 1
		ORIGINAL	新和社会	Company of the Compan
		The second second		

A STATE OF THE PARTY OF THE PAR

The Hall To be the the

	AND	THIS REPORT MUST BE SHUMIN TED WITHER AS DAYS AFTER WELL IS COMPLETED
SEQUENCE NO.	STATE OF MARYLAND	
1011 3842 (OEP USE ONLY)	WELL COMPLETION REPORT	NUMBER Replacement
	PLEASE PRINT OR TYPE	DE (02) (11)
THIS NUMBER IS TO BE PUNCHED IN COLS. 36 ON ALL CARDS)		FROM "PERMIT TO COME THE
IN COLS. 36 ON ACC DATE WELL COMPLETED	Depth of We':	CE-81-1231
DATE RECeived	22 / 16 0 1 1	· · · · · · · · · · · · · · · · · · ·
0013 1984 0 92 58 4	TO NEAREST FOOT	
13 13	N SON ORA F.	CERROLINE Med Sales
OWNER	YOU STATION POL. TOWN -	LOT
STREET OR RED JACK	SECTION	
SUBDIVISION	GROUTING RECORD TO	C 3
IAICI I I CIG	WELL HAS BEEN GROUTED (Y) NI	PUMPING TEST
Not required for driven wells	(Circle Accropriate Box) TYPE OF GROUTING MATERIAL	HOURS PUMPED (Realest hour 121-
STATE THE KIND OF FORMATIONS STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOP, DEPTH. PENETRATED, THEIR COLOP, DEPTH.	SENENT CM BENTONITE CLAY BC	PUMPING BATE Ga' per min 37
THICKNESS AND IT	CEMENT CITY	to nearest Ca')
if water	NO OF BAGS _ NO OF POUR SS /3	WETHON HEED TO PUSAFIE WITE
additional sheets if needed) FROM TO bearing		MEASURE PUMPING RATE L
	GALLONS OF WATER DEPTH OF GROUT SEAL (to nearest foci)	WATER LEVEL idistance from land Sur'de
V-11.10	from 0 It. to 3 0 "	BEFORE PUMPING
YELLOW	lenter 0 if from surfacer	MUSE PUMPING TITLE
SHUDY CLAY 0 18	casing CASING RECORD	WHEN PUMPING 1/6/6
	types ST CO	TYPE OF PUMP USED (for test)
	Insert STEEL CONCAETE	1 4 A : Titu'= ""
	appropriate PL OT	(A)air
SOFT GREEN 18 28	below PLASTIC OTHER	Brotary Oceanie
SUI GICEE!	Naminal diameter Total depth	C centrifugal R rotary
ROLL	MAIN Norman casing of main casing	
1002	TYPE (nearest inch) (nearest 1001)	J je: S : submersible
	CT K 30 1	31
	2 / 61 64 60	
HARD GREEN: 28 160	OTHER CASING III used	PUMP INSTALLED
HARD GREEN, 28 160	diameter depth (est.)	
	inch from	DRILLER WILL INSTALL PUMP YES (10)
GRAY		(CIRCLE) (YES OF NO) IF DRILLER INSTALLS PUMP, THIS SECTION IF DRILLER INSTALLS PUMP, THIS SECTION
PARTITI		MHST HE COMPLETED . T.
TO TORNITE		EXCEPT HOME USE TYPE OF PUMP INSTALLED
3.0 LE 1.1	screen type SCREEN RECORD	DI ACE A CITO DE STATE
	or open note SIT BR HO	IN BOX-SEE ABOVE
3	STEEL BRADS HOLE	CAPACITY: GALLONS PER MINUTE
	code PL OIT	(to nearest gailon)
	below PLASTIC OTHER	PUMP HORSE POWER
	1	PUMP COLUMN LENGTH
	C 2	tenning! !! \
	1 2 V DEPTH (nearest 1)	CASING HEIGHT (circle appropriate bo)
	1 4 0 1310 VI6101	and to the same
	A 1/1 15 17	LAND SURFACE
CIRCLE APPROPRIATE LETTER A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED		Toelow 1 - 12:
2	2)	49
E	18.	LOCATION OF WELL ON LOT
CIRCLE APPROPRIATE LETTER	E3 1 1 51	SHOW PERMANENT STRUCTURE SEARCH
A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED	No. Strategy	BUILDING, SEPTIC INDICATE NOT LESS
SEL THE SELECTION OF THE PARTY	SLOT SIZE 1 1 INEAREST	
E ELECTRIC LOG OBTAINED	DIAMETER	(MEASUREMENTS TO WELL)
TEST WELL CONVERTED TO PRODUCTION	OF SCREEN W	
THE I MEREST CERTIFY THAT COMAR 10.17.13 WELL CONSTRUCTION	GRAVEL PACK	
ACCORDANCE WITH ALL CONDITIONS STATEMENT AND IN CONFIGMANCE WITH ALL CONDITIONS INFORMATICAL ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATICAL PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST PRESENTED HEREIN FORCE AND COMPLETE TO THE BEST PRESENTED FORCE AND COMPLETE TO THE BEST PRESENTED FORC	FLOWING WELL INSERT	1 4st 1 4st
PRESENTED HEREIN IS ACCURATE AND OF	FIN BOX 58	7 2 1 250
117	and the second s	Sactson Str.
ORILLERS IDENT. NO.	(NOT TO BE FILLED IN BY DAILE	02 5.
Mar M. Mamyer	(E.R.O.S.)	0,50
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THE COURT PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROP	TELESCOPE LOG OTHER DATA	Red Stalling
DESCRIPTION OF THE PROPERTY AND THE PROP	A COMP TO THE PROPERTY OF THE	
SITE SUPERVISOR (sign, of driller or journal of the company of the		Contract the second second
A CONTRACTOR OF THE PROPERTY O	ORIGINAL	and a second sec

	16 20/3/84 Rec. 2254-122	EMERGENCY/TEMP NO. IF ANY	12 Carlot	OEP PERMIT NUMBER
				CE-813-14454
8,3,18	BY 1190 (OEP USE ONLY)	APPLICATION FOR PL	ERMIT TO DRILL WELL int or type	Till in this form completely
37.	(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)	piease pi	83	LOCATION OF WELL
0	Date Received	71011	1 2	Standby
3	100384 OWNER INFORM	ATION	C 2 C 1 /	
2	CNG(5 G1/1/	1 a 141 34	23 Subčin S CA	
	15 Last Name	PF Rd	SECTION I	LOT 43 50
4	Street or AFD	1121903	A / 1 / 1 1	40000
	Pany 01/10	State 2 210 16	STATES TOWN	
	DRILLER INFORMATION	ON	MILES FROM TOWN (ente	er O it in town)
AN	Fred & Kiel Kap F	77 L-cense No. 80	B 4	Committee 11
-7	Hedd letwickell White	Manj Co	DIRECTION OF WELL FROM	NEAR WHAT ROAD CO.
4.10	From Name	15730	1.41	E
4	Accress Delangue	10-1-8y	四十月	ON WHICH SIDE OF ROAD
7.70	Julkelly .			10
144	B 2 WELL INFORMATION		W TOWN	
34	APPROX PUMPING RATE (GAL PER MIN.)	3 12	15 1 SE	DISTANCE FROM HOAD
惩	AVERAGE DAILY QUANTITY NEEDED	000	S 0-7	
学会 用2時間時期的	THE (GAL PER DAI)	COPRIATE BOX		NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
15	USE FOR WATER (CIRCLE APPR			
1.22	DOME (SINGLE OR DOUBLE HOUSE) FARMING (LIVESTOCK WATERING & PRIGATION)	AGRICULTURAL	Cecil	STATE HEALT
33	CTATE A	MID FEDERAL GOTT	OEP SIGNATURE	INSE ^{®*} 5
	OTHER (REQUIRES AFTINO	W PEOUPES	DATE ISSUED	1 0 E. Surge 11/85
《华州林 山南	PUBLIC OR PRIVATE WATER COMPA	HEALTH DEPARTMENT	101184	EAST (A GO O O O O
Sep.	APPROVAL)	MAY REQUIRE	SAIC 6 2 7 0 0	0 EAST / 0 80 0 0 0
4	T TEST, OBSERVATION, MONITORING APPROPRIATION PERMIT)		SHOW WAJOR FEATUR	ES OF
蓬	120	TI	BOX & LOCATE WELL	
李	APPROXIMATE DEPTH OF WELL	28	SOUPCES OF DRILLING	3 WATER
	APPROXIMATE DIAMETER OF WELL 4	NEAREST INCH	i can still	219
PERSON.	METHOD OF DRILLING	(circle one)	2. 3.	
**	JETTED JETTED	Jetted & DHIVEN	WRITE THE BOX NUME	
未	AIR PERCUSSION	OTARY (Hydraulic Rolary)	FROM INC. WALL	<i>®</i> -
75P 459	CABLE HEVerse HOTary	DP.ive POINT	1080	
100	other		" 620	000
***	THE STATE OF THE PENT OF THE PENT	IED WELLS	DRAW A SKETCH BELG	OW SHOWING LOCATION OF WELL IN TOWNS AND ROADS AND GIVE
243	CIDCLE APPROPRIATE	5011	DISTANCE FROM WELL	_ 10 (t2/1/20)
95	N THIS WELL WILL NOT REPLACE AN	THAT WILL BE	N	Compile of hit
是代節語	THIS WELL WILL REPARED ABANDONED AND SEALED	THAT WILL BE USED	A	Challen
1	ABANDONED AND SEALED HIS WELL WILL REPLACE A WELL S A STANDBY		A SOFTER OF	1
2,000	THE PERSON AN EXIS	ING MELL	Dist	E HIP
S AU	PERMIT NUMBER OF WELL TO BE REPL	52	Ad	A THE STATE OF THE
RANK AND AND	Not to be lilled in by driller (OE	P USE ONLY)		\$ 410//
经	F 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	GAP		*
	APPROP, PERMIT NUMBER	63		±0
4000	FORCE WRITE NOTAL PERMIT NO. CE	- 8 1 - 1 2 5 0 72 73 74 75 76 77 78 79		1
1000	10 10 10 10 10 10 10 10 10 10 10 10 10 1		The state of the s	
	SPECIAL CONDITIONS	100 mg 100 mg 100 mg 100 mg 100 mg 100 mg 100 mg 100 mg 100 mg 100 mg 100 mg 100 mg 100 mg 100 mg 100 mg 100 mg	GINAL	MANAGE STATE OF THE
T.		GENERAL STATE	mercal production with the	

SEQUENCE NO.	STATE OF MARYLAND WELL COMPLETION REPORT	45 DAYS AFTER WELL IN COLOR - 18.
1 3801 (OEP USE ONLY)	FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE	NUMBER STEERINGS
HIS NUMBER IS TO BE PUNCHED	Centh of Well	FROM PERMIT N. DEC. VIII
ATE Received ON 12 P INTERIOR	TO NEAREST FOOTI	[CIS]-18; 4:] +: 5
5 6	1 OL STAME TOWN	Cary 5 11 112.
TREET OR RED	SECTION	LOT
UBDIVISION	WELL HAS BEEN GROUTED Y N	C 3
tion againsed for driven wells	(Circle Appropriate Box) TYPE OF GROUTING MATERIAL	HOURS PUMPED inearest hours
STATE THE KIND OF FORMATIONS PENETRATED. THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING THICKNESS AND IF WATER BEARING	CEMENT C M SENTONITE CLAY B C	PUMPING BATE (gar per min 7
THICKNESS AND FEET Check it water	45 40 MO CE POUNDS / EC	to nearest gal 1
DESCRIPTION (USE FROM TO bearing ditional sheets if needed)	GALLONS OF WATER DEPTH OF GROUT SEAL (10 Dearest 1001)	METHOD USED TO MEASURE PUMPING HATEL
Producted + 8 40 Clay Modrum to Como	from C :: :0 4 2 :	BEFORE PUMPING
0 1 - 04	48 100 (enter 0 if from surface) Casing CASING RECORD	WHEN PUMPING
Prince Sur 8 40	types ST CO	TYPE OF PUMP USED FOR 1981
cray	(insert appropriate) STEEL CONCRETE	A air Poston Tortine
Medica to Como	code pelow PLASTIC OTHER	77 Colores
Bian + white 40 50 V	MAIN Neminal diameter Total dopth	C centrifugal R rotary Olimontum
Sard	CASING top (main) casing of main casing (nearest foot)	J jet S submersible
	57 4 46	27
	50 51 51 54 55 54 55 THER CASING (If used)	The state of the s
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10. 11/5/8h Rec. #2325 MER EMERGENCY/TEMP NO IF AN	Y OEP PEPKIT NOVOCIO
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IN COLS. 36 ON ALL CARDS) Date Received	print or type B 3 LOCATION OF WELL 1 2 2 5 6 7 3 9
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PERRYULLE MD21903	MILES FROM TOWN (enter 0 if in town)
CHARLES A HAMILTON R 1112	BILL JACKSON STATICHE
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D HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY) F FARMING (LIVESTOCK WATERING & AGRICULTURAL F IBRIGATION)	Cecil COUNTY NO STATE HEALTH
INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOV.	DATE ISSUED [1 1 0 7 8 4 Charles 5/7/85]
P APPROVAL) PEST, OBSERVATION, MONITORING (MAY REQUIRE	NORTH 637000 EAST / C71000
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Partie Charles Control

	CIT 3950 SEQUENCE NO.	STATE OF MARYLAND WELL COMPLETION REPORT	THIS REPORT MUCH IN DAY AND ASSESSMENT OF THE CONTROL OF THE CONTR
4.2	1 23 MINARER IS TO BE PUNCHED	FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE	NUMBER
	IN COLS. 3-6 ON ALL CARDS) DATE Received DATE WELL COMPLETED O 7 9 5	Depth of Well 22 7 197 TO NEAREST FOCT	CIE -10 :- 4340
	LEXAVAER Jo	E 5PH tirst name	PERRY KILLE
	STREET OR RFD 121 TO PART A I KEN	SECTION SECTION	C 3
	Not required for driven we's STATE THE KIND OF FORMATIONS STATE THE KIND OF FOR COLURN SERVER.	WELL HAS BEEN GROUTED (Circle Assessment Box) TYPE OF GROUTING MATERIAL	HOURS PUMPED meanest to an
1	DESCRIPTION (Use additional sheets if needed) FROM TO bearing	NO. OF BAGS 4 NO. OF POUNDS 20 C	PUMPING RATE 19- PET ITS 3 2 to hearest gar! METHOD USED TO Day 14 CT
	+6PSOIL 8	GALLONS OF WATER 200 DEPTH OF GROUT SEAL (In nearest loot) from 11. 10 2 5	METHOD USED TO MEASURE PUMPING PATE WATER LEVEL distance from A 1 Surface BEFORE PUMPING 90
	ARLY CLAY 8 21 M. LITY Colorela 21 26	enter 0 if from surface) casing CAS:NG RECORD	WHEN PUMPING [16.7.
M. 25	SAND Y SANDER 2 C 38	types Insert appropriate code ST C O	TYPE OF PUMP USED YOU TO
1.1	RES CLAY 38 70 COMPSE SAND 70 109	MAIN Nominal diameter Total depth of main dasing casing too (main) casing (main dasing depth)	Coentrifugal Ristar. O constitution
36	RED CLAY / 150	TYPE (nearest inch) (nearest fcot)	J jet S sucmersitie
-	FIRES AND 120 148 GAZYCLAY 120 148 GAZYCLAY 148 159	OTHER CASING (if used:	PUMP INSTALLED
	CARSESAND 148 159	c I I I I I I I I I I I I I I I I I I I	DRILLER WILL INSTALL PUMP YES (CIRCLE) (YES OF NOIL IF DPILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL IVELLS
		screen type SCREEN RECORD or open hole SIT BIR HIO	TYPE OF PUMP INSTALLED PLACE (A.C.J.P.R.S.T.O)
		insert appropriate code below	IN BOX SEE ABOVE CAPACITY GALLONS PER MINUTE (to nearest gallon)
100		C 2	PUMP HORSE POWER PUMP COLUMN LENGTH (nearest ft.)
		E P L DEPTH (nearest !!)	CASING HEIGHT (circle appropriate not and enter casing twich)
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学の新	E ELECTRIC LOG OBTAINED TEST WELL CONVERTED TO PRODUCTION	DIAMETER (NEAREST INCH)	THAN TWO DISTANCES (MEASUREMENTS TO WELL)
連続	I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCOMPANCE WITH COMAR 19.17.13 "WELL CONSTRUCTION ACCOMPANCE WITH ALL CONDITIONS STATED IN THE AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION ABOVE CAPTIONED PERMIT AND COMPLETE TO THE BEST	GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT	Marie Land
さんらうべ	DROLERS IDENT NO. LES	OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) WC	11000
変を必要	<u> </u>	70 72 OTHER DATA	SOUTH P/L
THE REAL PROPERTY.	SITE SUPERVISOR (sign, of driller or journeyman responsible for sitework if different from permittee)	CASING INDICATOR	(6)4.
77.63		ORIGINAL	
			The second secon

The 10. 1/18/85 Rec. #2683-137 EMERGENCY/TEMP NO. IF AN	Y OCH PERMIT MUNICIPAL
B 1 1132 SEQUENCE NO. STATE OF	PERMIT TO DRILL WELL CE 11480
THIS NUMBER IS TO BE PUNCHED please (IN COLS. 3-6 ON ALL CARDS)	OTHER OF TYPE
Date Received O 14 1 8 8 5 OWNER INFORMATION	CIECIAI III NAS
Fronkers es kobart	23 SU9DW 5-Ch
BSChesthurphy 555	SECTION LOT LOT
DRILLER INFORMATION	MILES FROM TOWN lenter Gill in town Bir 4 M 1
Driver's Name Driver	DIRECTION OF MELL FROM TOWN ICIPCLE SC!
Delwerch Rd Perry Neptro.	ON VI 2- SIDE OF ROAD (CIRCLE APPROPRIATE SO)
B 2 WELL INFORMATION APPROX. PUMPING RATE (GAL. PER MIN.)	DISTANCE TRUM HCAD
AVERAGE DAILY QUANTITY NEEDED 30	ENTER FT or W. L
USE FOR WATER (CIRCLE APPROPRIATE BOX)	NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY) FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) MOBILE PARK INDUSTRIAL, COMMERCIAL STATE AND FEDERAL GOV. OTHER (REOUIRES APPROPRIATION PERMIT) OTHER (REOUIRES APPROPRIATION PERMIT)	Cecil COUNTY NAVE STATE WELLS DATE ISSUED DATE ISSUED COUNTY NAVE STATE WELLS OUT OF THE STATE WELLS
P APPROPRIATION PERMIT AND STATE TO APPROVAL) TEST OBSERVATION, MONITORING (MAY REQUIRE	NORTH 628:00 0 GRID SS C 7 8 0 0 0
APPROPRIATION PERMIT) APPROXIMATE DEPTH OF WELL 28	SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X
APPROXIMATE DIAMETER OF WELL 6	SOURCES OF DRILLING WATER 1. Well water 2.
METHOD OF DRILLING (circle one) BORED (or Augered) AIR PERcussion BOTARY (Hydraulic Rotary)	3. WRITE THE BOX NUMBER FROM THE MAP HERE
CABLE REVerse ROTary DRIve POINT	E ; 070 000
REPLACEMENT OR DEEPENED WELLS (CIRCLE APPROPRIATE BOX)	DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN
N THIS WELL WILL NOT REPLACE AN EXISTING WELL	RELATION TO NEAREST ROAD JUNCTION DISTANCE FROM WELL TO NEAREST ROAD JUNCTION
ABANDONED AND SEALED THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY S AS A STANDBY	Hill To The Tall and
PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENDED (IF AVAILABLE) 41 52	A maininit
Not to be times in a)	× ×
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ORI	GINAL

			THIS REPORT MUST SE SUDW! IT
1901	-L- 0710 SEQUENCE NO.	STATE OF MARYLAND	45 DAYS AFTER WELL IS CLOWING
1	CI 8718 SEQUENCE NO.	WELL COMPLETION REPORT	COUNTY
	THIS NUMBER IS TO BE PUNCHED	FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE	NUMBER Oncomment Fig. 12.
	IN COLS. 3-6 ON ALL CARDS)		political income
4	DATE Received DATE WELL COMPLETE	Death of Well	FERNAL STATE OF THE STATE OF TH
		22 27 51 26	08-81-1480
	F-1.14 1065 050285	(TO NEAREST FOOT)	
	15.	2.1 +	
		eber tirst name TOWN	Derry L'illey 1/10
	STREET OR RED S Chast name	FJ. 461	LOT
-	SUBDIVISION	SECTION	
	WELL LOG	GROUTING RECCAD	C 3
	Not required for driven wells	WELL HAS BEEN GROUTED (Circle Appropriate Box)	PLATFILL TO LET
	STATE THE KIND OF FORMATIONS	TYPE OF GROUTING MATERIAL	HOURS PUMPED TRACESTORES (2012)
	PENETRATED, THEIR COLGR. DEPTH. THICKNESS AND IF WATER SEARING	CEMENT CM BENTONITE CLAY BIC	
.		22.112.1	PUMPING RATE (gall per m. / 5
	DESCRIPTION (Use FEE: it water additional sheets if needed) FROM - TO i bearing	NO OF BAGS 7 NO. OF POUNDS 376	METHOD USED TO
	= a Sa' 1 0 2	CALLONG OF MATER	MEASURE PUMPING PATE ALL TO THE
	Top Soil 02	DEPTH OF GROUT SEAL (10 mearest fact)	WATER LEVEL idistance "ich a" :
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3	Brown grave 2 20	tenter 0 if from surfaces	
		casing CASING RECORD	WHEN PUMPING C.C.
	a sand	types (ST)CO	4.1
	Blue clay 20 00	insert CONCRETE	TYPE OF PUMP USED Not lest
	Klue clay	appropriate PL OT	A air Poster I
-3		below PLASTIC OTHER	7
3	514 / 14		C sentrifugar R ratari
	White clay 40 m	MAIN Nominal diameter Total depth	E
2	white clay 40 45	CASING top (main) casing of main casing TYPE (nearest inch) (nearest foot)	(F)
	+ Sana	1112 (1100.00)	J jet S sunme siz "
	in cell	5+ 6 80	0.1
-	11 to sound 15 85 V	DU 91 63 64 59	bailes
-3.	+ sand white sand 75 85 V	OTHER CASING (if used) diameter depth (feet)	FOMP INSTALLED
11		c inch from to	
			DRILLER WILL INSTALL PUME PER (1)
7.7		\$	(CIRCLE) (YES 95 NO) IF DRILLER INSTALLS PUME THIS SECTION
			MUST BE COMPLETED FOR ALL 115-1-
		3	EXCEPT HOME USE TYPE OF PUMP INSTALLED
412		screen type SCREEN RECORD	PLACE IA CUPRIST.C
-		or open hole ST BR HO	IN BOX SEE ABOVE
217		appropriate STEEL BRASS OPEN BRONZE HOLE	CAPACITY
700	-	and O T	GALLONS PEP MINUTE
1000		below PLASTIC OTHER	PUMP HORSE POWEP
		/ FEASING S	
1		C 2	PUMP COLUMN LENGTH
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1	1	A B 9 11 15 17 2:	LAND SUPFACE
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574			- selow)
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de Samon	CIRCLE APPROPRIATE LETTER	[£ 3	LOCATION OF WELL GO. LO
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- sh	When this tree	SLOT SIZE 1_V_2 3	I AL LANDMARKS AND INCOME.
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龙	ABOVE CAPTIONED PERMIT. AND THAT PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.	FLOWING WELL INSERT	V. 1.3
30	160		χ ω-
经产业发展	DRILLERS IDENT. NO.	OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER)	XW=11 NO House
33.0	Meinon Withet	T (E.R.O.S.) WO	110) 1000 =
4	DRILLERS SIGNATURE	74 75 76	~ 0
74	(MUST MATCH SIGNATURE ON APPLICATION)	70 72	100
		TELESCOPE LOG OTHER DATA	
1	SITE SUPERVISOR (sign, of driller or journeyman	CASING INDICATOR	
	responsible for sitework if different from-permittee)	ORIGINAL	Sayle Sacrath
E-9.		ALEXANDER ON ON ON A SECOND	

		MERGENCY/TEMP NO. IF ANY	Pd. \$40. 5/17/85	Diante in the second
		APPLICATION FOR P.	MARYLAND ERMIT TO CRILL WELL: ont or type	CE 81 1544
	THIS NUMBER IS TO BE PUNCHED	A .000	B 3	LOCATION OF WELL
	Date Received	TION	Celcila	TTTTTTT Starty
	0511785 OWNER INFORMA	7701	\$ 500 V	
7. 2.3	MUSICH ARVELL	First Name	22 SUBDIVINGS	Lilia I and a second
	121 1 SACKSON ST	ATIONE	SECTION [LOT LL
	Street or AFO	121903	De la la VIVI	THE TIME TO THE TENT OF THE TE
	PERRY VIII	State / 2 D Te	NEAHES TAN	D WENT
1	DRILLER INFORMATIO	N 250	MILES FROM TOWN (ent	er Oil in town)
	CONSTRUTINE DIFILIPPO	17 License No 30	8 4	JACKSON STATILE 1-
	C. DiFolipyz Well deille		DIRECTION OF WELL FROM	IN NEAR WHAT POAT
	2235 Bloball Rd Elpt	a, Md. 21921	- 50	ON WHICH SIDE OF ROAL COME
	Address A: C. C. C.	5-17-85		(CIRCLE APPENDED AS TELL
3	Signature Manager	Date		200
1	B 2 WELL INFORMATION		TONY TEN	2 Jales -
1	APPROX. PUMPING RATE (GAL. PER MIN.)	12	15 L	DISTANCE FROM HUAD
1000	AVERAGE DAILY QUANTITY NEEDED (GAL PER DAY)	10 1 20	1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ENTER FT COM ELT
G	USE FOR WATER CIRCLE APPRO	OPRIATE BOX)		NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
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A	CONTROCIAL STATE AL	ND FEDERAL GOV.	OEP SIGNATURE	INSER'S
2. 16Km	TOTAL TOTAL PROPERTY APPROVED THE PROPERTY OF		DATE ISSUED	11 - 0. 5 Simper 11/17/85
2	PUBLIC OR PRIVATE WATER COMPAN P APPROPRIATION PERMIT AND STATE	HEALTH DEPARTMENT	43	O SIGNATURE EAST / O TH O C C
11.5	APPROVAL) T TEST, OBSERVATION, MONITORING		NORTH 6317 0 0	0 EAST / 0 74 0 0 0
J. Cot.	T TEST, OBSERVATION PERMIT)		SHOW MAJOR FEATUR	RES OF
X.	TERRETH OF WELL 150	FEET	BOX & LOCATE WELL -	× dQ
-77	APPROXIMATE DEPTH OF WELL 1/50	28	SOURCES OF DRILLING	GWATER
	APPROXIMATE DIAMETER OF WELL	NEAREST INCH	1. Well	
17.	METHOD OF DRILLING	circle one)	3.	
7.4	BORED (or Augered) JETTED	Jetled & DRIVEN	WRITE THE BOX NUMB	BER
1	AIR-ROTary AIR-PERcussion RC	OTARY (Hydraulic Rotary) ORive-POINT	+	
4	CABLE REVerse ROTary	Dive_real	E 1070	
光光	other		N 63e	000
變	REPLACEMENT OR DEEPENE	D WELLS	DRAW A SKETCH BELO	OW SHOWING LOCATION OF WELL IN TOWNS AND ROADS AND GIVE
in the	(CIRCLE APPROPRIATE B	0.21	DISTANCE FROM WELL	TO NEAREST ROAD JUNCTION
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2	S AS A STANDBY D THIS WELL WILL DEEPEN AN EXISTIN		N 4 3	/c:- /c- /
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TILL DOE A SEQUENCE NO.	STATE OF MARYLAND	THIS REPORT AND THE METERS AND THE M
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SUBDIVISION		C 3
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additional sheets if needed) FROM TO bearing	CHI ONE OF WATER & C	MEASURE PUMPING PARE CON / PORTE
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	8	IF DRILLER INSTALLS PUMP. THIS SEET
		EXCEPT HOME USE TYPE OF PUMP INSTALLED
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CIRCLE APPROPRIATE LETTER		LOCATION OF WELL ON LIT
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Contact Det line	T (E.R.O.S.) WO	KIT ALL TO THE PARTY OF THE PAR
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	TELESCOPE LOG OTHER DATA	September 12 de la companya de la co
SECT PREDORSIDIE 101 SITUATION	GAOING	
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A STANDARD AND A STANDARD A STANDARD AND A STANDARD	THE RESERVE TO STATE OF THE PARTY OF THE PAR	

APPLICATION FOR PERMIT TO DRILL WELL STANDARD SHUBBER TO BE ENGATED Date Reconsider Directory and Lichida Date Reconsider Directory and Lichida Directory	10. 6/7/85 Rec.#2818 322 EME	RGENCYMEMP NO. IF ANY		GRA Service	A second
Series And Series Serie	B 1 7532 SEQUENCE NO.	PLICATION FOR PE	ERMIT TO DRILL WELL	[C] E 8 1.	1593
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DRILLER INFO RIVE ON THE PRIVATE ON	15 Last Name	UT Rd 55	73 SUBC - S - 1	LOT [[5]	
WATER CONTINUES	PERRYVIIIE Me	721903	HE WELDED TONE	ar Out in town)	
DIRECTOR SALES AND SALES A	WALTER J. FRANK	17 License No 30	B 4	2.0	F. Fa.
B 2 WELL INFORMATION APPROX PUMPING RATE IGAL EER UNIT DISTRICT ON A PEROX PUMPING RATE IGAL EER UNIT DISTRICT ON A PEROX PUMPING RATE IGAL EER UNIT DISTRICT ON A PEROX PUMPING RATE IGAL ER UNIT DISTRICT ON A PEROX PUMPING RATE IGAL ER UNIT DISTRICT ON A PEROX PUMPING RATE IGAL ER UNIT DISTRICT ON A PEROX PUMPING RATE IGAL ER UNIT DISTRICT ON A PEROX PUMPING DISTRICT ON A PEROX PUMPING RATE IGAL ER UNIT DISTRICT ON A PEROX PUMPING RATE IGA	FRANK'S WELL SPITING	13. 21226	TOWN 'CIRCLE BOY	ON WHICH SIDE DE	-264 mills
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SAND F WHITE COM	types ST CO	TYPE OF PUMP USED (***)
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Moltry & Frank	- (E.R.O.S.) WO	
CRILLERS SIGNATURE ON APPLICATION)	1 75 75	_ (7 ×
7 . Tark	TELESCOPE LOG OTHER DATA	
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responsible for sitework it different	COLCINIAL	
	THE STREET SHOWING THE WAY	

A COURS HOL #3221-MER EMERGENCYTEMP NO. IF ANY	Figure 1997
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140. 10/15/85 Rec. #3350 MERGENCYTEMP NO. IF ANY	Catabarga, voy.
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SPECIAL CONDITIONS OR	IGINAL

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WELL LOG Not required for at let we is	WELL HAS BEEN GROUTED (Circle Appropriate Box)	C S S S S S S S S S S S S S S S S S S S
STATE THE KIND OF POEMATIONS PENETRATED, THEIR COLOR DEPTH, THICKNESS AND IF WATER SEASING	CEMENT C M SENTONITE SLAV B C	Howest was a section of the section
DESCRIPTION (Use additional sheets if need to bearing additional sheets if need to bearing and the sheet state of the sheet sta	NO. OF BAGS 4 NO SEREUNOS 200 GALLONS OF WATER DEPTH OF GROUT SEAL HE nearest 100"	METHOD USED TO MEASURE BUYERNAM HATT BE GAZ. BUXER TO MEASURE PUMPHAN HATT BE GAZ. BUXER TO THE MEASURE BUYERNAM TO THE MEASURE BUYERNAM TO THE MEASURE BUYERNAM TO THE MEASURE BUYERNAM TO THE MEASURE BUYERNAM TO THE MEASURE BUYERNAM TO THE MEASURE BUYERNAM TO THE MEASURE BUYERNAM TO THE MEASURE BUYERNAM TO THE MEASURE BUYERNAM TO THE MEASURE BUYERNAM TO THE MEASURE BUYERNAM TO THE MEASURE BUYERNAM TO THE BUYERN
KED CZII	from 0	BEFORE PUNERWA 124
GRAT CLAT	casing Casing PECCES	WHEN PUMPING 33
GRAY CLAY 20 27 SAND + ROCKS 27 30	types insert appropriate code types SIT CONCRETE STEEL CONCRETE PL OT	TVES OF SUMP USED 101 IN
GRAY CLAY 30 50	Delow PLASTIC OTHER	Claentrusa Ritetati O
GRAY CLAY 50 70	MAIN Nominal diameter Total depth of main casing type inearest inchi (hearest footi	Jie: Secretar
SAND + GRAY CLAY 70 90	PL 4 120	
SAND + WHITE CLAY 90 110	D'HER CASING H' used!	PUPP WSTAUCTU
CAND + WHITE CLAY 110 122		DAILLER WILL INSTALL PUMP (+1)
SAND 122 130 XXX		MUST BE COMPLETED FOR ALL TREES
	screen type SCREEN PECOPD or open hore ST BR HO	TYPE OF PUMP INSTALLED PLACE A 2 UPRS TO IN BOX-SEE ABOVE
	insert STEEL SEAS OPEN Appropriate HOLE	CARACITY GALLONS PER MINUTE
	code pelow PL OT PLASTIC OTHER	NO PERIORS (AR OF POWER IN THE PERIOR POWER
	C 2	powe coulyn 181-301 50
	2 1 0E2*Hineares***	Casting HE GHT switte avariation at 6 buy
		LANDSHIPATA
	S 23 24 25 7	- : e.a.)
CIRCLE APPROPRIATE LETTER A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED	E N 39 39	SHOW REPUNNENT TRUTH RES. TO BUILD NO SEED TO SAN OR
E FLECTRIC LOG OBTAINED	SLOT SIZE 30 :	N LANDWARKS AND TO THE THE THE THE THE THE THE THE THE THE
TEST WELL CONVERTED TO PRODUCTION WELL THEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN THEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN	from 19 , 20'	164
MEREBY CERTIFY THAT THIS WELL HAS SEE CONSTRUCTION ACCORDANCE WITH COMMA 10.1/131 ABEL CONSTRUCTION AND IN CONFORMANCE WITH ALL CONCITIONS STATED IN THE AND IN CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE	IE WELL DRILLED WAS	The state of the s
DRILLERS IDENT. NO5	OEP USE ONLY (NOT TO BE FILLED IN BY OFILLER)	23 2000
ORILLERS SIGNATURE ON APPLICATION)	T (E.P.O.S.) WO	STATE SCOOL DE CHENKEN
SITE SUPERVISOR (sign, of driller or journeyman responsible for sitework if different from permittee	TELESCOPE LOG OTHER DATA	

\$40.11/14/91 # 75957-12Th	MERGENCY/TEMP NO. IF ANY		
SEQUENCE NO.	STATE OF I		STATE PERMIT NUMBER
(THIS NUMBER IS TO BE PUNCHED	APPLICATION FOR PE		C E - 8 8 - 2 1 7 9
IN COLS. 3-6 ON ALL CARDS)	please pri		
Date Received (APA) OWNER INFORM	IATION	B 3	LOCATION OF WELL D2576
8 13	7	8 COUNTY	21
15 Last Name Owner	First Name 34	CREEN 6 A	42
38 Street or RFD	555	SECTION 44 46	LOT 48 50
PERRYU: 11E	0 State 72 Zip 78	ChARIES	70 w w 71
DRILLER INFORMATION	ON [138]	52 NEAREST TOWN MILES FROM TOWN (ente	MIT IMIT
Donald S. NEWNAM Driler's Name Should WEll Driller.	77 License No. 80	B 4	Woodall Rd.
Firm Name		DIRECTION OF WELL FROM TOWN (CIRCLE BOX)	11 NEAR WHAT ROAD 30
Address AN CON	11/14/91	N N NE	ON WHICH SIDE OF ROAD
Signature S. Teamon	Date	B-9 B-9	(CIRCLE APPROPRIATE BOX) WEST S EAST SOUTH
WELL INFORMATION APPROX. PUMPING RATE (GAL PER MIN.)	N	TOWN E	
AVERAGE DAILY OLIANTITY NEEDED	8 12	Sw S S	34 2 5 37 DISTANCE FROM ROAD
(GAL. PER DAY)	20		ENTER FT or MI FA
USE FOR WATER (CIRCLE APPR			NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
D HOME (SINGLE OR DOUBLE HOUSE) FARMING (LIVESTOCK WATERING & A	IOLD UNIT ONLY) GRICULTURAL	Cecil	
IRRIGATION)	ID FEDERAL GOV.	COUNTY NAME STATE	COUNTY NO.
22 OTHER (REQUIRES APPROPRIATION I	PERMIT) Y (REQUIRES	SIGNATURE	NSERT S 41
P APPROPRIATION PERMIT AND STATE APPROVAL)	HEALTH DEPARTMENT	43 48 6	CO SIGNATURE EXP. DATE
T TEST, OBSERVATION, MONITORING (MAPPROPRIATION PERMIT)	MAY REQUIRE	NORTH 63000	O O EAST / O 7 9 0 0 0 0 55 63
7/46		SHOW MAJOR FEATUR BOX & LOCATE WELL	
APPROXIMATE DEPTH OF WELL 24	28	WITH AN X SOURCES OF DRILLING	G WATER
APPROXIMATE DIAMETER OF WELL	4 NEAREST	1. Tewa - Cacil	Tor
METHOD OF DRILLING	circle one)	2. 3.	
BORED (or Augered) 30 AIR-ROTary AIR-PERcussion	Jetted & <u>DRIVEN</u> ROTARY (Hydraulic Rotary)	WRITE THE BOX NUMI	
CABLE REVerse-ROTary	DRive-POINT	- +	
other	· · · · · · · · · · · · · · · · · · ·	E /07	
REPLACEMENT OR DEEPEN		DRAW A SKETCH BELO	OW SHOWING LOCATION OF WELL IN
(CIRCLE APPROPRIATE B		RELATION TO NEARBY	TOWNS AND ROADS AND GIVE _ TO NEAREST ROAD JUNCTION
THIS WELL WILL REPLACE A WELL ABANDONED AND SEALED	THAT WILL BE	N	1 11 81
39 S THIS WELL WILL REPLACE A WELL AS A STANDBY	THAT WILL BE USED	1 20 4	100 dell 181)-25-76
D THIS WELL WILL DEEPEN AN EXIST			1-25-76
PERMIT NUMBER OF WELL TO BE REPLA	ACED OR DEEPENDED		
Not to be filled in by driller (OEI	P USE ONLY)	┪ '	i i i i i i i i i i i i i i i i i i i
APPROP. PERMIT NUMBER	G A P 63		
FORCE WRITE INITIALS PERMIT No. Q E - 70 71 7	- 8 8 - 2 1 7 9 2 73 74 75 78 77 78 79		
SPECIAL CONDITIONS		-	
		- -	

10.11/14/91 # 75957-12TE	MERGENCY/TEMP NO. IF ANY			
COL7 SEQUENCE NO.	STATE OF I	MARYLAND	STATE PERMIT	NUMBER
(DP USE ONLY)	APPLICATION FOR PE	RMIT TO DRILL WELL	CE-88-	- 2 1 7 9 completely ⁷⁹
IN OLS. 3-6 ON ALL CARDS)	рюдос р	B 3	LOCATION OF WELL	
Date Received (APA) I 9 9 1 OWNER INFORM.	ATION	[CEC!/]		D2576
S UT R 9 1 1 UAN 5	First Name 34	8 COUNTY REW B A 23 SUBDIVISION	~ M 21	42
Street or RFD	55	SECTION 44 46	LOT 48 50	
57 Town 70	M 2 Zip 78	CAARIES TOWN	TOWN	71
DRILLER INFORMATION	77 License No. 80	MILES FROM TOWN (ente	r 0 if in town) 73 7	M 1 3 8 77 78
Shore Well Drillers		DIRECTION OF WELL FROM TOWN (CIRCLE BOX)	11 NEAR WHAT	ROAD 30
ECITON, M.	11/14/91	NW 8 NE	ON WHICH SIDE OF R	
Signature WELL INFORMATION	Date V	W (TOWN) E	(CIRCLE APPROPRIAT	SOUTH
APPROX. PUMPING RATE (GAL. PER MIN.) 8 AVERAGE DAILY QUANTITY NEEDED		S S S S	34 7 5 DISTANCE FI	S 37 ROM ROAD
USE FOR WATER (CIRCLE APPRI	20		ENTI NOT TO BE FILLED IN BY	ER FT or MI 9 5
	•		HEALTH DEPARTMENT AS	PROVAL
HOME (SINGLE OR DOUBLE HOUSEHOUSEHOUSEHOUSE) FARMING (LIVESTOCK WATERING & ACTION)		Cecil COUNTY NAME		COUNTY NO.
INDUSTRIAL, COMMERCIAL, STATE AND OTHER (REQUIRES APPROPRIATION P	PERMIT)	STATE SIGNATURE		_ INSERT S 41
PUBLIC OR PRIVATE WATER COMPANY P APPROPRIATION PERMIT AND STATE H APPROVAL)	(REQUIRES HEALTH DEPARTMENT	DATE ISSUED 1 1 1 9 9 1 43 48 6	CO SIGNATURE E.S.	5/19/92 EXP. DATE
TEST, OBSERVATION, MONITORING (M. APPROPRIATION PERMIT)	AY REQUIRE	NORTH 63000	55 GRIU 57	9000
APPROXIMATE DEPTH OF WELL 24	FEET 28	SHOW MAJOR FEATUR BOX & LOCATE WELL . WITH AN X		
APPROXIMATE DIAMETER OF WELL	4 NEAREST INCH	SOURCES OF DRILLING	G WATER	
METHOD OF DRILLING (c	circle one)	_ 2. 3.		·
BORED (or Augered) AIR-ROTary AIR-PERcussion	Jetted & <u>DRIVEN</u> ROTARY (Hydraulic Rotary)	WRITE THE BOX NUM! FROM THE MAP HERE		
CABLE REVerse-ROTary	DRive-POINT	- 		
other	·	E /07	——————————————————————————————————————	7
REPLACEMENT OR DEEPEN		DRAW A SKETCH BELO	OW SHOWING LOCATION (OF WELL IN
THIS WELL WILL NOT REPLACE AN ELL THIS WELL WILL REPLACE A WELL THIS WELL WILL REPLACE A WELL THIS WELL THIS WELL THIS WELL THIS WELL THE THE THIS WELL THE	XISTING WELL	DISTANCE FROM WELL	TOWNS AND ROADS AND TO NEAREST ROAD JUNE	CTION .
ABANDONED AND SEALED THIS WELL WILL REPLACE A WELL 1		A 70 4	100 dall 18	.
AS A STANDBY D THIS WELL WILL DEEPEN AN EXISTIN	NG WELL		> 5-76	
PERMIT NUMBER OF WELL TO BE REPLA				
Not to be filled in by driller (OEP	USE ONLY)	╡ '		
PPROP. PERMIT NUMBER 54	G A P 63			
FORCE WRITE INITIALS PERMIT No. C E - 70 71 72	88-2179	·		
PECIAL CONDITIONS		-		

			ائي ورواز د ر	·	
1 299		JENCE I		SIAIE OF MARTLAND	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
2 3 HIS NUMBER IS TO B	BE PUNCHED			WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE	COUNTY NUMBER D2576
COLS. 3-6 ON ALL C					PERMIT NO.
ATE Received			MPLETE	1 (1/1) 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	FROM "PERMIT TO DRILL WELL" C E - 88 - 2179
EE x 4 1902	0 1	14	92	(TO NEAREST FOOT)	28 29 30 31 32 33 34 35 36 37
WNERSout	ha11	Tana	+		
	hall Green			IOVVIN	erryville, Md.
JBDIVISION		Dank		SECTION SECTION	LOT
Not required				WELL HAS BEEN GROUTED	C 3 1 2
STATE THE KIND PENETRATED, TH	OF FORMAT	TONS L DEPTH	i.	(Circle Appropriate Box) TYPE OF GROUTING MATERIAL	PUMPING TEST
THICKNESS AND	IF WATER E	BEARING	i	CEMENT CM BENTONITE CLAY BC	HOURS PUMPED (nearest hour)
SCRIPTION (Use ditional sheets if need		TO	Check if water bearing	NO. OF BAGS 7 NO. OF POUNDS 250	PUMPING RATE (gal. per min. 5 0 1 1 15 15
11				DEPTH OF GROUT SEAL (to nearest foot)	METHOD USED TO MEASURE PUMPING RATEbucket
v-yellow	0	9		from O ft. to / 3 D ft.	WATER LEVEL (distance from land surface)
v low clay-sa		34		48 TOP 52 54 BOTTOM 58 (enter 0 if from surface)	BEFORE PUMPING 4 4 1
-white clay	7	126		casing <u>CASING RECORD</u>	(TOO)
low-white			/	types insert ST CO	WHEN PUMPING 22 25
1	126	148		appropriate STEEL CONCRETE CONCRETE	TYPE OF PUMP USED (for test) A air P piston T turbine
	İ			below PLASTIC OTHER	27 27
			ļ ļ	MAIN Nominal diameter Total depth	C centrifugal R rotary O other (describe
		1		CASING top (main) casing of main casing TYPE (nearest inch) (nearest foot)	27 27 below)
				PL 7 138	J jet S submersible
				60 61 63 64 66 70	<u>-</u> ,
				E OTHER CASING (if used) A diameter depth (feet) H inch from to	PUMP INSTALLED
					DRILLER WILL INSTALL PUMP YES NO
				\$	(CIRCLE) (YES or NO)
				NG	IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS
				screen type SCREEN RECORD	EXCEPT HOME USE TYPE OF PUMP INSTALLED
	ļ			or open hole ST BR HO	PLACE (A,C,J,P,R,S,T,O) IN BOX - SEE ABOVE:
				(appropriate) STEEL BRASS OFEN BRONZE HOLE	CAPACITY:
				below PLASTIC OTHER	GALLONS PER MINUTE (to nearest gallon)
			}	C[2]	PUMP HORSE POWER 37 41
				1 2 DEPTH (nearest ft.)	PUMP COLUMN LENGTH (nearest ft.)
				E 1 S T 1 3 8 1 4 8	ASING HEIGHT (circle appropriate box and enter casing height)
				8 9 11 15 17 21	+ above LAND SURFACE
				2	below (nearest foot)
CIRCLE APP	ROPRIATE L	ETTER		S 23 24 26 30 32 36 R 3	49 50 51
A WELL WAS AB	ANDONED . L WAS COM	AND SEA APLETE	ALED D	E 38 39 41 45 47 51	LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH AS
ELECTRIC LOG	DBTAINED			SLOT SIZE3	BUILDING, SEPTIC TANKS, AND/OR N LANDMARKS AND INDICATE NOT LESS
TEST WELL CON	NVERTED TO) PROD	UCTION	DIAMETER 4 (NEAREST INCH)	THAN TWO DISTANCES (MEASUREMENTS TO WELL)
BERY CERTIFY THAT THIS	WELL HAS BE	EN CONST	RUCTED IN	from to	
CORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE THE CAPTIONED PERMIT, AND THAT THE INFORMATION PRE-				GRAVEL PACK 130 148 1 F WELL DRILLED WAS	×w.√
VITED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF KNOWLEDGE.			E BEST OF	FLOWING WELL INSERT	, χω· [*]
FILERS IDENT, NO. 138				F IN BOX 68 68 0EP USE ONLY	l " ,—'
Jonald S	Neun	w		(NOT TO BE FILLED IN BY DRILLER)	
TILLERS SIGNATURE	E TURE ON A	PLICAT	ION)	T (E.RO.S.) W Q	//ous!
	. = . = 5		•	70 72	-
TE SUPERVISOR (s sponsible for sitewo	ign. of driller	or journ	eyman	TELESCOPE LOG OTHER DATA CASING INDICATOR	. :
				ORIGINAL	
•	and the second	es .			

 ·			יידע, פון נודי	
2995		UENCE N		STATE OF MARYLAND THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
3 NUMBER IS TO BE	PUNCHED			WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE COUNTY NUMBER D2576
USE ONLY	RDS)			PERMIT NO.
ceived			MPLETE	
B x 4 1392	0/	14	92	22 / 4 9 26 (TO NEAREST FOOT) 26 C E - 8 8 - 2 1 7 9 28 29 30 31 32 33 34 35 36 37
RSouth	311 32122m	Jane	ŧ	first name TOWN Perryville, Md.
EET OR RFD 20	Green	Bali k	Rd	SECTIONLOT
DIVISION WELL				
Not required for	r driven w			WELL HAS BEEN GROUTED
STATE THE KIND OF PENETRATED, THE	F FORMAT IR COLOR	TONS LDEPTH	,	TYPE OF GROUTING MATERIAL PUMPING TEST PUMPING TEST
HICKNESS AND IF	WATER E	BEARING	<u> </u>	CEMENT CM BENTONITE CLAY BC HOURS PUMPED (nearest hour) 6
PTION (Use onal sheets if needed	FEI FROM		Check if water bearing	PUMPING RATE (gal. per min. 3 0
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			GALLONS OF WATER 725 METHOD USED TO
ellow	1			DEPTH OF GROUT SEAL (to nearest foot) MEASURE PUMPING RATE DUCKET
.	0	9	. 1	from O ft. to / 3 O ft. WATER LEVEL (distance from land surface)
w clay-san		34		(enter 0 if from surface) BEFORE PUMPING 17 20
ite clay	34	126		casing CASING RECORD WHEN PUMPING 100
-white				insert appropriate STEL CONCRETE TYPE OF PUMP USED (for test)
	126	148	 	code / PI OT A air / P niston T turbine
				PLASTIC OTHER 27 27 27
				MAIN Nominal diameter Total depth C centrifugal R rotary O other (describe
_				CASING top (main) casing of main casing TYPE (nearest inch) (nearest foot)
				S submersible
				P L 4 1 3 8 27 70 27
_				E OTHER CASING (if used)
			1	diameter depth (feet) H inch from to
			ļ . !	DRILLER WILLINSTALL PUMP YES NO
_	ľ	}		(CIRCLE) (YES or NO) IF DRILLER INSTALLS PUMP, THIS SECTION
•	-			MUST BE COMPLETED FOR ALL WELLS
-				screen type SCREEN RECORD EXCEPT HOME USE TYPE OF PUMP INSTALLED
_				or open hole ST BR HO PLACE (A.C.J.P.R.S.T.O) IN BOX - SEE ABOVE:
				(appropriate) STEEL BRASS OPEN CAPACITY:
			1	code below PL OT GALLONS PER MINUTE (to nearest gallon)
				PLASTIC OTHER PLIMP HORSE POWER
				PUMP COLUMN LENGTH 37 41
-				DEPTH (nearest ft.) (nearest ft.) (nearest ft.) (nearest ft.) (ASING HEIGHT-(circle appropriate box
				IE IS IT III I3 IS I III I4 IS I II / → ✓ / > and enter casing height) I
		1	1	LAND SURFACE
				s 22
CIRCLE APPRO			J	8 50 51
A WELL WAS ABAI WHEN THIS WELL	NDONED A	AND SEA APLETEI	ALED O	LOCATION OF WELL ON LOT A SHOW PERMANENT STRUCTURE SUCH AS
ELECTRIC LOG OB				BUILDING, SEPTIC TANKS, AND/OR
TEST WELL CONVERTED TO PRODUCTION DIAMETER [] [] (NEAREST				DIAMETER (. (NEAREST THAN TWO DISTANCES
WELL				OF SCREEN (4) I I I I I INCH) (MEASUREMENTS TO WELL)
EBY CERTIFY THAT THIS W PRDANCE WITH COMAR 2	8.04.04 WE	LL CONST	TRUCTION"	GRAVEL PACK I 130 II 148
CAPTIONED PERMIT, AND THAT THE INFORMATION PRE-				IF WELL DRILLED WAS
FLOWING WELL INSERT				
CLERS IDENT. NO.	138		_	OEP USE ONLY
Timalel S.	neun.	4		(NOT TO BE FILLED IN BY DRILLER)
ERS SIGNATURE			ONI	T (E.RO.S.) WQ
JOT MAICH SIGNATU	INE UN AF	FLICAII	OI4)	70 72
				TELESCOPE LOG OTHER DATA
SUPERVISOR (sign	of driller	Of IOUTE	evnon	CASING INDICATOR

c ₁ 7152	SEQUENCE (DENV USE C		STATE OF MARYLAND WELL COMPLETION REPORT	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
1 2 3 (THIS NUMBER IS TO BE P	UNCHED	,,,_,,	FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE	COUNTY NUMBER D1747
IN COLS. 3-6 ON ALL CARI	DATE WELL CO	MDI ETER	Depth of Well	PERMIT NO. FROM "PERMIT TO DRILL WELL
MAY 2 9 991		9/	22 300 26	CE-88-181
6 13	Sp n	20	(TO NEAREST FOOT)	28 29 30 31 32 33 34 35 38 3
OWNER	last name	591	MOUNTAIN HILLS TOWN	PERRYVILLE, Md. 21903
SUBDIVISION			SECTION	LOT
WELL I Not required for	driven wells		WELL HAS BEEN GROUTED (Circle Appropriate Box)	C 3
STATE THE KIND OF PENETRATED, THEIR	R COLOR, DEPT	H.	TYPE OF GROUTING MATERIAL	PUMPING TEST HOURS PUMPED (nearest hour)
THICKNESS AND IF DESCRIPTION (Use	FEET	Check if water	CEMENT BENTONITE CLAY B C	PUMPING RATE (gal. per min. 2
additional sheets if needed)	FROM TO	bearing	NO. OF BAGS 2 NO. OF POUNDS 1974 GALLONS OF WATER 10.5	to nearest gal.) METHOD USED TO BUCKETY WATCH
BROWN			DEPTH OF GROUT SEAL (to nearest foot)	MEASURE PUMPING RATE (E) WHI WATER LEVEL (distance from land surface)
SAND +	20		from 6 ft. to 8 ft. to 8 ft. ft. to 8 ft. ft. ft. ft. ft. ft. ft. ft. ft. ft.	BEFORE PUMPING 50
SAND T GRAVEL	0 30		casing <u>CASING RECORD</u>	WHEN PUMPING 2/0
			types insert appropriate STEEL CONCRETE	TYPE OF PUMP USED (for test)
			code below PL OT	A air P piston T turbine
RED CLAY	30 50		PLASTIC OTHER	27 27 other
/			MAIN Nominal diameter Total depth CASING top (main) casing of main casing	centrifugal R rotary O (describ below)
			TYPE (nearest inch) (nearest foot)	jet Submersible
BROWN SAND	50 65	1	F Z 63 64 86 70	21 —21
BROWN			C OTHER CASING (if used) C diameter depth (feet) H inch from to	PUMP INSTALLED
			c	DRILLER WILL INSTALL PUMP YES (NO)
YELLOW CLAY	65 70	ļ	\$	(CIRCLE) (YES or NO) IF DRILLER INSTALLS PUMP, THIS SECTION
1			screen type SCREEN RECORD	MUST BE COMPLETED FOR ALL WELLS EXCEPT HOME USE
			or open hole ST BR HO	TYPE OF PUMP INSTALLED PLACE (A.C.J.P.R.S.T.O)
1			(appropriate) STEEL BRASS OPEN BRONZE HOLE	IN BOX - SEE ABOVE: CAPACITY:
SOFT GIRETA	70 82		below PL OT	GALLONS PER MINUTE (to nearest gallon) (to nearest gallon)
SOFT GREEN WEATHERED ROCK			PLASTIC OTHER	PUMP HORSE POWER 37 41
1000		İ	1 2 DEPTH (nearest ft.)	PUMP COLUMN LENGTH (nearest ft.)
Uprel Con	82 300		E 140 86 300 31	CASING HEIGHT (circle appropriate box and enter casing height)
HARA GRAY GRANITE	102 100	' ·		LAND SURFACE
1 -	·		S 23 24 26 30 32 38	below
CIRCLE APPRO	IDONED AND SE	ALED	R 3 41 45 47 51	LOCATION OF WELL ON LOT
WHEN THIS WELL		ים	SLOT SIZE 123	A SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND/OR LANDMARKS AND INDICATE NOT LESS
TEST WELL CONVE		UCTION	DIAMETER (NEAREST OF SCREEN INCH)	THAN TWO DISTANCES (MEASUREMENTS TO WELL)
THEREBY CERTIFY THAT THIS WI ACCORDANCE WITH COMAR 20	ELL HAS BEEN CONS	TRUCTED IN	56 60 from to	1 U
AND IN CONFORMANCE WITH A	UL CONDITIONS STA	IATION PRE-	GRAVEL PACK L	888
SENTED HEREIN IS ACCURATE A MY KNOWLEDGE.		HE DEST OF	FLOWING WELL INSERT FIN BOX 68 68	DRIVEWAY
DRILLERS IDENT. NO. L	112		OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER)	- 15 \ Z
DRILLERS SIGNATURE	Hamille	a fter	T (E.R.O.S.) W Q	House \$2 20' H
(MUST MATCH SIGNATU	RE ON APPLICA	TON)	70 72 74 75 76	
SITE SUPERVISOR (sign	of driller or jour	neyman	TELESCOPE LOG OTHER DATA CASING INDICATOR	
responsible for sitework i	t different from p	ermiπee)	ORIGINAL	

and the second second

7152	SEQUENCE	NO.	STATE OF MARYLAND	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
7152	(DENV USE (ONLY)	WELL COMPLETION REPORT	COUNTY
THIS NUMBER IS TO BE PL	JNCHED	i	FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE	NUMBER D1747
IN COLS. 3-6 ON ALL CARD	S)			PERMIT NO.
ST/CO USE ONLY DATE Received	DATE WELL CO	OMPLETED	Depth of Well	FROM "PERMIT TO DRILL WELL
MAY 2 9 1991	052	391	22 300 26	C E - 8 8 - 1 8 1 9
8 13	15	20	(TO NEAREST FOOT)	28 29 30 31 32 33 34 35 38 3
OWNER	GRA	V E	dward	
STREET OR RFD	ast name /	591	MOUNTAIN HITTEN TOWN_	PERRYVILLE, Md. 21903
SUBDIVISION			SECTION	LOT
WELL L	OG.		GROUTING RECORD voe no	C 3
Not required for	driven wells		WELL HAS BEEN GROUTED (Circle Appropriate Box)	1 2
STATE THE KIND OF I	FORMATIONS COLOR DEPT	н	TYPE OF GROUTING MATERIAL	PUMPING TEST
THICKNESS AND IF \	NATER BEARIN	iG	CEMENT CM BENTONITE CLAY BC	HOURS PUMPED (nearest hour)
DESCRIPTION (Use	FEET	Check if water	45 46	PUMPING RATE (gal. per min. 2
additional sheets if needed)	FROM TO	bearing	NO. OF BAGS NO. OF POUNDS _1974	to nearest gal.)
			GALLONS OF WATER	METHOD USED TO BUCKETY WATCH
BROWN	ĺ			WATER LEVEL (distance from land surface)
CANAL			48 TOP 52 54 BOTTOM 58	FALL
21119	0 30		(enter 0 if from surface)	BEFORE PUMPING 17 20
BROWN SAND F GRAVEL			casing CASING RECORD types	WHEN PUMPING 210
			/ insert \ SI CO	22 25
			(appropriate) STEEL CONCRETE COde	TYPE OF PUMP USED (for test)
_ / .	20 1-		below /	A air P piston T turbine
RED CLAY	30 50		PLASTIC OTHER	27 27 27 other
			MAIN Nominal diameter Total depth CASING top (main) casing of main casing	C centrifugal R rotary O (describ below)
/	1		CASING top (main) casing of main casing TYPE (nearest inch) (nearest foot)	1 2,
				jet Submersible
	50 65	-		27 27 .
BROWN SAND	30 63		60 61 63 64 66 70 E OTHER CASING (if used)	
	1	İ	A diameter depth (feet)	PUMP INSTALLED
.•			inch from to	
			CA CALLED	DRILLER WILL INSTALL PUMP (CIRCLE) (YES or NO)
YELLOW CLAY	165 10			IF DRILLER INSTALLS PUMP, THIS SECTION
1 1 27		1	N G	MUST BE COMPLETED FOR ALL WELLS EXCEPT HOME USE
,		1	screen type SCREEN RECORD	TYPE OF PUMP INSTALLED
			or open hole ST BR HO	PLACE (A,C,J,P,R,S,T,O)
		1	STEEL BRASS OPEN	IN BOX - SEE ABOVE:
SOFT GREEN	70 82			GALLONS PER MINUTE
WEATHERED			below PLASTIC OTHER	(to nearest gallon)
SOFT GREEN WEATHERED ROCK]	C 2	PUMP HORSE POWER 37 41
KOLK		1	1 2	PUMP COLUMN LENGTH
			DEPTH (nearest ft.)	(nearest ft.) CASING HEIGHT (circle appropriate box
11 pel Con	100 2.		E 1/10 86 300	and enter casing height)
MAND BULLE	82 30	7	A 8 9 11 15 17 21	LAND SURFACE
GRAU:TE		ļ		(nearest
UNINITE			S 23 24 26 30 32 36	— below / foot)
CIRCLE APPROF	PRIATE LETTER	EALED	R 3	. LOCATION OF WELL ON LOT
A A WELL WAS ABANG	VAS COMPLET	ED	E 38 39 41 45 47 51	A SHOW PERMANENT STRUCTURE SUCH AS
E ELECTRIC LOG OBT			SLOT SIZE 123	BUILDING, SEPTIC TANKS, AND/OR
TEST WELL CONVERTED TO PRODUCTION			DIAMETER (NEAREST	N LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES
P WELL			OF SCREEN NCH)	(MEASUREMENTS TO WELL)
THEREBY CERTIFY THAT THIS WE	LL HAS BEEN CON	STRUCTEO IN	from to]" / "
ACCORDANCE WITH COMAR 28.04.04 WELL CONSTRUCTION AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRE-			GRAVEL PACK	18
SENTEO HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF			IF WELL DRILLED WAS FLOWING WELL INSERT	DLIVE WAY 3
MY KNOWLEDGE.			FIN BOX 68 68	1 13.
DRILLERS IDENT. NO. L	112	<u>, , </u>	OEP USE ONLY	127 15
1 /0. 1. 11	Hamill	to de	(NOT TO BE FILLED IN BY DRILLER)	EX 71 I
/ # # A ///	1 W. TELL	- The same of the	T (E.R.O.S.) W Q	House \$200
DRILLERS SIGNATURE		TIONI	74 75 78	1
DRILLERS SIGNATURE (MUST MATCH SIGNATUR	RE ON APPLICA	(IION)		1 / 1
DRILLERS SIGNATURE (MUST MATCH SIGNATUR	RE ON APPLICA	(IION)	70 72 07150 077	
DRILLERS SIGNATURE (MUST MATCH SIGNATURE SITE SUPERVISOR (sign. responsible for sitework if	of driller or jou	rnevman	72 TELESCOPE LOG OTHER DATA CASING INDICATOR	12

والمتراجع والمناورة

	642-6861	EMERGENCY/TEMP NO. IF ANY	1.540, #72387		
В	1 8888 SEQUENCE NO. (DP USE ONLY)	STATE OF I APPLICATION FOR PE		STATE PERMIT NUMBER	
ľ	2 T 3 T 3 T 3 T 3 T 3 T 3 T 3 T 3 T 3 T	please pri		⁷⁰ fill in this form completely	. 1
	Date Received (APA) D 7 1 9 9 0 OWNER INFORM	ATION	B3 Cec 1L	LOCATION OF WELL D1747	
	GRAY EDWARD		8 COUNTY	21	77
	15 Last Name Owner S 9 1 M O U N T A / N Street or RFD	First Name 34 HILL RD 55	23 SUBDIVISION SECTION	ьот П	42
	PERRUVILLE	MD 219 03 0 State 72 Zp 78	Perrul	48 50 [[Le]	71
	CHARLES H HAMILTON	TR 1112	MILES FROM TOWN (ente	r 0 if in town) Z M I 73 78 77 78	 1
	Voues & HAMILTON	77 License No. 80	B 4	MOUNTAIN HILL RD.	
	Firm Name	ef 21078	DIRECTION OF WELL FROM TOWN (CIRCLE BOX)		30 <u>ЭЕП</u> Н "
	Signature H Hamuster	Date 16-91	N 8 N N N N N N N N N N N N N N N N N N	ON WHICH SIDE OF ROAD	0 20 E S EAST
В		1 2 1 1	[W (TOWN) E	Sc	ਹਿੰਜਿ
	APPROX. PUMPING RATE (GAL. PER MIN.)	12		34 30 37 DISTANCE FROM ROAD	
_	(GAL FER DAT)	20 20	Sw 5 8	ENTER FT or MI	38 39
	USE FOR WATER (CIRCLE APPR			NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL	(
	D HOME (SINGLE OR DOUBLE HOUSEH		Cecil	COUNTY NO.	i
	IRRIGATION) INDUSTRIAL, COMMERCIAL, STATE AN OTHER (REQUIRES APPROPRIATION F	D FEDERAL GOV.	STATE SIGNATURE	INSERT S	
	PUBLIC OR PRIVATE WATER COMPANY	(REQUIRES	DATE ISSUED 051491	Charles S. S.	41 41/14
	APPROVAL) TEST, OBSERVATION, MONITORING (M			O SIGNATURE OP. DA	ATE
	T TEST, OBSERVATION, MONITORING (M	AI REGUITE	50	55 57 63	
	APPROXIMATE DEPTH OF WELL	FEET 28	SHOW MAJOR FEATUR BOX & LOCATE WELL . WITH AN X		
	APPROXIMATE DIAMETER OF WELL6	NEAREST INCH	SOURCES OF DRILLING 1 2.	3 WAIER	
	METHOD OF DRILLING (3.	×	. 1
	BORED (or Augered) 30 AIR-ROTary AIR-PERcussion	Jetted & <u>DRIVEN</u> ROTARY (Hydraulic Rotary)	WRITE THE BOX NUME FROM THE MAP HERE		
	CABLE REVerse-ROTary	DRive-POINT	E 1070		-
	other		1070 N 1.30	,	1
	REPLACEMENT OR DEEPEN		DRAW A SKETCH BELO	OW SHOWING LOCATION OF WELL IN	
	(CIRCLE APPROPRIATE BO	XISTING WELL	DELATION TO NEARBY	TOWNS AND ROADS AND GIVE TO NEAREST ROAD JUNCTION	
	THIS WELL WILL REPLACE A WELL	THAT WILL BE	N		
	39 S THIS WELL WILL REPLACE A WELL	THAT WILL BE USED	1	3 -R -	
	THIS WELL WILL DEEPEN AN EXISTIN			· 4. \ _K\ _	_ 1
	PERMIT NUMBER OF WELL TO BE REPLA	CED OR DEEPENDED	· -wull	Sur	
-	Not to be filled in by driller (OEP	USE ONLY)		RB- F	
		G A P 63		1	
	FORCE WRITE INITIALS PERMIT No. C E - 70 71 72	8 8 - 1 8 1 Q 73 74 75 76 77 78 79			
	SPECIAL CONDITIONS				

642-6861	EMERGENCY/TEMP NO. IF ANY	1.40,#72389	-MIKE	3993	
D 1 QQQQ SEQUENCE NO.	STATE OF	MARYLAND		TE PERMIT NUMBE	ir
1 2 3 (THIS NUMBER IS TO BE PUNCHED	APPLICATION FOR PE		ΦE 70 fill in	- 8 8 - 1 8 n this form comp	1 9 letely ⁷⁹
IN COLS. 3-6 ON ALL CARDS) Date Received (APA)	<u> </u>	B 3	LOCATION	OF WELL	
0 4 1 9 9 1 OWNER INFORM	IATION	1 2		TTT D17	47
CAN F DULARD		BCOUNTY		21	··
15 Last Name Owner	First Name 34	23 SUBDIMSION			42
ST 9 1 MOUNTAIN	HICC RD	SECTION 44 46	LOT 48		
PEREYVILLE 57 TOWN	MD 31903 70 State 72 Zip 78	Perajui 52 NEAREST TOWN	LLE		71
DRILLER INFORMATIONS CHARLES H. HAMILTONS	TP 1112	MILES FROM TOWN (ente	er 0 if in town)	Z M I	_4
Vones & HAMILTON	77 License No. 80	B 4	MOUNT	TAIN HILL	Ro,
Firm Name 115 N. PARODISE RL. Hd.	ef 21078	DIRECTION OF WELL FROM TOWN (CIRCLE BOX)	11	NEAR WHAT ROAD	30
Address Hames Hamester	J. 4-16-91	N N N E B P 9		H SIDE OF ROAD APPROPRIATE BOX)	NORTH N W W E
Signature B 2 WELL INFORMATIO					WEST STEAST SOUTH
APPROX. PUMPING RATE (GAL. PER MIN.)	STILL	W TOWN E		34 340 37	7
AVERAGE DAILY QUANTITY NEEDED (GAL PER DAY)	8 1 ¹² 20	Sw S S		DISTANCE FROM ROA ENTER FT or	
USE FOR WATER (CIRCLE APPR	ROPRIATE BOX)	8	NOT TO BE FIL	LED IN BY DRILLE	
D HOME (SINGLE OR DOUBLE HOUSE)	HOLD UNIT ONLY)	Cecil		RTMENT APPROVA	NL.
F FARMING (LIVESTOCK WATERING & A		COUNTY NAME		COUN	TY NO.
INDUSTRIAL, COMMERCIAL, STATE AN OTHER (REQUIRES APPROPRIATION	ND FEDERAL GOV. PERMIT)	STATE SIGNATURE	<u> </u>	INSERT	s [
PUBLIC OR PRIVATE WATER COMPAN	Y (REQUIRES	DATE ISSUED 1	(hal	. E. S	
APPROVAL)		NOOTH THE	O SIGNATURE EAST GRID	107500	O DATE
TEST. OBSERVATION, MONITORING (A APPROPRIATION PERMIT)	MAY REQUIRE	GRID [1/13 7 0 0	55 .	1 0 1 3 0 0 0 0 0 0 0 0 0	63~
APPROXIMATE DEPTH OF WELL	FEET	SHOW MAJOR FEATUR BOX & LOCATE WELL . WITH AN X			
6	NEAREST	SOURCES OF DRILLING	G WATER		
APPROXIMATE DIAMETER OF WELL	INCH	1. 2.			
METHOD OF DRILLING		3.		×	•
BORED (or Augered) JETTED 30 AIR-ROTary AIR-PERcussion	Jetted & <u>DRIVEN</u> <u>ROTARY</u> (Hydraulic Rotary)	WRITE THE BOX NUME FROM THE MAP HERE			•
CABLE REVerse-ROTary	DRive-POINT				
other		E 1070			
REPLACEMENT OR DEEPEN	NED WELLS	- N <u>630</u>		0	IN
(CIRCLE APPROPRIATE E	3OX)	DRAW A SKETCH BELC RELATION TO NEARBY	TOWNS AND R	OADS AND GIVE	C 114
N THIS WELL WILL NOT REPLACE AN THIS WELL WILL REPLACE A WELL	EXISTING WELL THAT WILL BE	DISTANCE FROM WELL	. 10 NEAREST	HOAD JUNCTION	
ABANDONED AND SEALED		N	\		
39 S THIS WELL WILL REPLACE A WELL AS A STANDBY	•	1 T	月	DR.	
D THIS WELL WILL DEEPEN AN EXIST PERMIT NUMBER OF WELL TO BE REPL			· tu		
(IF AVAILABLE) 41	52	-well	Sur -		
Not to be filled in by driller (OE	P USE ONLY)	┤	RB -	1 TE	
APPROP. PERMIT NUMBER 54	G A P 63			1	
FORCE WRITE INTINUS PERMIT No. CE-	- 8 8 - 1 8 1 9 2 73 74 75 78 77 78 79			J. J.	
SPECIAL CONDITIONS			<u>-</u>		

•						
	2948	SEQU	ENCE I	NO.	STATE OF MARYLAND	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
ł	1 2 3 (THIS NUMBER IS TO BE P	UNCHED	USE O	NLY)	WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE	COUNTY NUMBER DO495
Ļ	IN COLS. 3-6 ON ALL CARI	DS)"			FEEAGE PHINT OF THE	PERMIT NO.
1	ST/CO USE ONLY DATE Received	DATE WE	LL CO	MPLETED		FROM "PERMIT TO DRILL WELL
	NOV k b local	سليكا	3 1	90	22 / 2 8 26 (TO NEAREST FOOT)	C E - 8 8 - 1 4 3 4 28 29 30 31 32 33 34 35 36 3
l	OWNER <u>McElyea</u> STREET OR RFD 16	W1	llia	n		
	STREET OR RFD	last name	H1	11 Rd	first name TOWN	Perryville, Md.
Į	SUBDIVISION	ــــــــــــــــــــــــــــــــــــــ			SECTION	
Ī	WELL I Not required for	driven we	ells		WELL HAS BEEN GROUTED	<u>C 3 </u>
Ì	STATE THE KIND OF PENETRATED, THEIR	FORMAT	ONS		(Circle Appropriate Box) TYPE OF GROUTING MATERIAL	PUMPING TEST
ı	THICKNESS AND IF	WATER B	EARING	·	CEMENT CM BENTONITE CLAY BC	HOURS PUMPED (nearest hour)
	DESCRIPTION (Use additional sheets if needed)	FROM	TO	Check if water bearing	45 48 45 48 NO. OF BAGS NO. OF POUNDS	PUMPING RATE (gal. per min. 2XXB 0 to nearest gal.)
.01	soil	0	2		GALLONS OF WATERO ANNULAR SPACE DEPTH OF GROUT SEAL (to nearest foot)	METHOD USED TO MEASURE PUMPING RATEbucket
	lo sand-clay-				from ft. to ft.	WATER LEVEL (distance from land surface)
	vel	2	20		48 TOP 52 54 BOTTOM 58 (enter 0 if from surface)	BEFORE PUMPING 3 1
	-white clay	20	82		casing <u>CASING RECORD</u>	17 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	e sand-clay	82	113		types insert ST CO	WHEN PUMPING 22 25
hi	te sand	113	128	1	appropriate STEEL CONCRETE	TYPE OF PUMP USED (for test)
					code below PLASTIC OTHER	P piston T turbine
					MAIN Nominal diameter Total depth	C centrifugal R rotary O (descrit
					CASING top (main) casing of main casing TYPE (nearest inch) (nearest foot)	27 27 below)
						jet Submersible
		1			60 61 63 64 66 70	27 21
					COTHER CASING (if used) A diameter depth (feet)	PUMP INSTALLED
					inch from to	/ \
					S T 2 112 123	DRILLER WILL INSTALL PUMP YES NO (CIRCLE) (YES or NO)
					zc	IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS
					screen type SCREEN RECORD	EXCEPT HOME USE TYPE OF PUMP INSTALLED
			ĺ		or open hole ST BR HO	PLACE (A.C.J.P.R.S.T.O) IN BOX - SEE ABOVE:
					(appropriate) STEEL BRASS OPEN BRONZE HOLE	CAPACITY:
					code below PL OT	GALLONS PER MINUTE (to nearest gallon) 31 35
	Ì	Ì			PLASTIC OTHER	PUMP HORSE POWER 37 41
						PUMP COLUMN LENGTH (nearest ft.)
					DEPTH (nearest ft.)	CASING HEIGHT (circle appropriate box
					A 6 9 11 2 3 15 17 21 21 21 21 21 21 21 21 21 21 21 21 21	+ above
			ļ	Ì		LAND SURFACE (nearest)
	CIRCLE APPRO	PRIATE	ETTER	ــــــــــــــــــــــــــــــــــــــ	S 23 24 26 30 32 38	48 50 51
	A WELL WAS ABAN	IDONED A	AND SE	ALED	E 3 47 51	LOCATION OF WELL ON LOT A SHOW PERMANENT STRUCTURE SUCH AS
	WHEN THIS WELL WAS COMPLETED			U	SLOT SIZE : 15_23	BUILDING SEPTIC TANKS, AND/OR
	E ELECTRIC LOG OBTAINED TEST WELL CONVERTED TO PRODUCTION			UCTION		LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES
	P WELL HAS BEEN CONSTRUCTED IN			TRUCTED IN	DIAMETER OF SCREEN 58 50 INCH)	(MEASUREMENTS TO WELL)
	ACCORDANCE WITH COMAR 2	8.04.04 TWE	IONS STA	TED IN THE	GRAVEL PACK	
	ABOVE CAPTIONED PERMIT, AN SENTED HEREIN IS ACCURATE A				IF WELL DRILLED WAS FLOWING WELL INSERT	30, XM,
	MY KNOWLEDGE.				F IN BOX 68 68	
	DRILLERS IDENT, NO. 1	9/		-	OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER)	
	ORIU ERS SIGNATURE		~		T (E.R.O.S.) W Q	1
	(MUST MATCH SIGNATU	RE ON A	PPLICAT	ION)	74 75 76	· ·
	SITE SUPERVISOR (sign	of driller	or iour	nevman	TELESCOPE LOG OTHER DATA	1
	responsible for sitework	if different	from p	ermittee)	CASING INDICATOR ORIGINAL	
	and the second of the second of the second	****		6.5	ORIGINAL	and the second s

PJ #46. 9/12/90 #687/2-In	ENERGENCY/TEMP NO. IF ANY			
B 1 3544 SEQUENCE NO. (OP USE ONLY)	STATE OF	MARYLAND	STATE PERMIT N	UMBER
1 2 13 NUMBER IS TO BE PUNCHED	• • • = • • • • • • • •	ERMIT TO DRILL WELL	CE-88-	1 4 3 4
IN COLS. 3-6 ON ALL CARDS)	please pr	int or type	LOCATION OF WELL	completely
Date Received (APA) OWNER INFORM	ATION		LOCATION OF WELL	D0495
8 13	ا امدلام	8 COUNTY	21	W433
15 Last Name Owner	First Name 34	GREEN GA		42
36 Street or RFD	<u>d</u>	SECTION 1	LOT 48 50	
PERRYVILLE TOWN 7	Md	SZ NEAREST TOWN	To w/x III	71
DRILLER INFORMATION S. IVEW NA	1 .1 _ 1 _ 1	MILES FROM TOWN (ente	er 0 if in town) 2, 5 78	M I 77 78
Drillary Name	77 License No. 80	B 4 .	CARRINTERS 1	Pr. Rd
Firm Name	1913.	DIRECTION OF WELL FROM TOWN (CIRCLE BOX)	11 NEAR WHAT R	OAD 30
Agress Signature Signature	9/10/90	N N N N N N N N N N N N N N N N N N N	ON WHICH SIDE OF ROA (CIRCLE APPROPRIATE E	
B 2 WELL INFORMATION	V	TOWN E	175	SOUTH
APPROX. PUMPING RATE (GAL PER MIN.)	10 12		34 24 0	37
AVERAGE DAILY QUANTITY NEEDED (GAL PER DAY)	000		DISTANCE FRO ENTER	M ROAD FT or MI
USE FOR WATER (CIRCLE APPR	OPRIATE BOX)		NOT TO BE FILLED IN BY DE HEALTH DEPARTMENT APP	
HOME (SINGLE OR DOUBLE HOUSEH FARMING (LIVESTOCK WATERING & A	OLD UNIT ONLY)	Cecil	HEALIN DEPARTMENT AFF	NOVAL
IRRIGATION)		COUNTY NAME		COUNTY NO.
22 I INDUSTRIAL, COMMERCIAL, STATE AN OTHER (REQUIRES APPROPRIATION F	PERMIT)	STATE SIGNATURE DATE ISSUED	01 0 == "	NSERT S
PUBLIC OR PRIVATE WATER COMPAN P APPROPRIATION PERMIT AND STATE APPROVAL)	Y (REQUIRES HEALTH DEPARTMENT	091790	O SIGNATURE	3/17/ (EXP. DATE
TEST, OBSERVATION, MONITORING (NAPPROPRIATION PERMIT)	MAY REQUIRE	NORTH 3000	EAST / O 8 à	63
APPROXIMATE DEPTH OF WELL	FEET 28	SHOW MAJOR FEATUR BOX & LOCATE WELL . WITH AN X	ES OF	
	f NEAREST INCH	SOURCES OF DRILLING		
APPROXIMATE DIAMETER OF WELL		2.		
METHOD OF DRILLING (BORED (or Augered) JETTED	Jetted & DRIVEN	3. WRITE THE BOX NUME	BER	
30 AIR-ROTary AIR-PERcussion	ROTARY (Hydraulic Rotary)	FROM THE MAP HERE	i i	
<u>CABLE</u> <u>REV</u> erse <u>-ROT</u> ary	<u>DR</u> ive- <u>POINT</u>	E 108	0 .	
other		N 630		
REPLACEMENT OR DEEPEN (CIRCLE APPROPRIATE B	OX)	RELATION TO NEARBY	OW SHOWING LOCATION OF TOWNS AND ROADS AND G	iive .
THIS WELL WILL NOT REPLACE AN I	EXISTING WELL THAT WILL BE		TO NEAREST ROAD JUNCTI	
ABANDONED AND SEALED		N 596	CARPENTERS	F/. /\d.
AS A STANDBY	•	T ·		
PERMIT NUMBER OF WELL TO BE REPLA			CARPENTERS D-0495	. •
(IF AVAILABLE) 41	52			
Not to be filled in by driller (OEF		·		
APPROP. PERMIT NUMBER 54	G A P 63			
FORCE WRITE INITIALS PERMIT No. C 12-70 71 72	8 8 - 1 4 3 4			
SPECIAL CONDITIONS				

710.0118110 - 0118110.WIT			STATE PERMIT NUMBER
4910 SEQUENCE NO. (DP USE ONLY)	STATE OF M		
THIS NUMBER IS TO BE PUNCHED	APPLICATION FOR PEF please prin		O FI 8 8 1 1 2 1 8 4 1 1 1 2 1 8 4 1 1 1 2 1 8 1 4 1 1 1 2 1 8 1 4 1 1 1 1 2 1 8 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
IN COLS. 3-6 ON ALL CARDS) Date Received (APA)		В 3	LOCATION OF WELL
OLA 1890 OWNER INFORM	· . -	7	C5655
BOYCE ChARICS		BCOUNTY BREEMBA	NK CONFFARMS
15 Last Rame Owner CARREL NTELS P.F.	First Name 34	23 SUBDIVISION	42
36 Street or RFD	M4 55	SECTION 44 46	TOW / 1
5/ 10411	O State 72 Zip 78	52 NEAREST TOWN	71 MI
DONALD S. NIWNAM	138	MILES FROM TOWN (ente	er 0 if in town) 73 76 77 78
Shore Well Drillers	77 License No. 80	B 4 DIRECTION OF WELL FROM	Congrator Pto Nac
CecilTon, Md. 219		TOWN (CIRCLE BOX)	11 NEAR WHAT ROAD 30 NORTH
Address on all S. Thunm	C/14/90	N N N N N N N N N N N N N N N N N N N	ON WHICH SIDE OF ROAD WEST FIELDS
Signature B 2 WELL INFORMATIO		W TOWN E	150 SOUTH
APPROX. PUMPING RATE (GAL. PER MIN.)	7 6 12		34 2 3 37
AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY)	6 0 0 20		DISTANCE FROM ROAD ENTER FT or MI 38 39
USE FOR WATER (CIRCLE APPR	ROPRIATE BOX)	8	NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
D HOME (SINGLE OR DOUBLE HOUSE)	OLD UNIT ONLY)	On ni	
FARMING (LIVESTOCK WATERING & A	GRICULTURAL	Ceci	COUNTY NO.
IRRIGATION) INDUSTRIAL, COMMERCIAL, STATE AN	ND FEDERAL GOV.	STATE	
OTHER (REQUIRES APPROPRIATION	PERMIT)	SIGNATURE DATE ISSUED	INSERT S 41
PUBLIC OR PRIVATE WATER COMPAN P APPROPRIATION PERMIT AND STATE	Y (REQUIRES HEALTH DEPARTMENT	062290	(harly E. Smysen12/2
APPROVAL)		43 48 (O SIGNATURE PAST TO SOLUTION OF THE SAST TO SOLUTION O
TEST, OBSERVATION, MONITORING (NAME APPROPRIATION PERMIT)	MAY REQUIRE	NORTH 62900	55 57 63
APPROXIMATE DEPTH OF WELL 24	FEET 28	SHOW MAJOR FEATUR BOX & LOCATE WELL WITH AN X.	~
APPROXIMATE DIAMETER OF WELL	MEAREST INCH	SOURCES OF DRILLIN 1. TO WAY - CCC 2.	(Tox
METHOD OF DRILLING	1	3 .	
BORED (or Augered) 30 AIR-ROTary AIR-PERcussion	Jetted & DRIVEN ROTARY (Hydraulic Rotary)	WRITE THE BOX NUM FROM THE MAP HERE	
30 <u>AIR-ROT</u> ary <u>AIR-PER</u> cussion 37 <u>CABLE REV</u> erse <u>-ROT</u> ary	DRive-POINT	+	
	·	E 1070	· · · · · · · · · · · · · · · · · · ·
other		N 650	
REPLACEMENT OR DEEPEL (CIRCLE APPROPRIATE E		DRAW A SKETCH BEL	OW SHOWING LOCATION OF WELL IN
THIS WELL WILL NOT REPLACE AN			TOWNS AND ROADS AND GIVE L TO NEAREST ROAD JUNCTION
THIS WELL WILL REPLACE A WELL	THAT WILL BE	N	TO NEAREST HOAD JUNCTION TO SEAREST HOAD JUNCTION COULT
ABANDONED AND SEALED		1.7	- 13
39 S THIS WELL WILL REPLACE A WELL AS A STANDBY	THAT WILL BE USED	1 7	
D THIS WELL WILL DEEPEN AN EXIST	ING WELL		1 K Cooki
PERMIT NUMBER OF WELL TO BE REPL			N DAIL
(IF AVAILABLE) 41	52		
Not to be filled in by driller (OE	P USE ONLY)]	
APPROP. PERMIT NUMBER 54	G A P So		•
FORCE WRITE INITIALS PERMIT No. CE	- 8 8 - 1 2 8 4 72 73 74 75 78 77 78 79		
SPECIAL CONDITIONS		·.	
The second secon	ORK	GINAL CANADA CONTRACTOR	and the second s

SEQUENCE NO. (DENV USE ONLY)	STATE OF MARYLAND WELL COMPLETION REPORT	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
2 3 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)	FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE	COUNTY NUMBER C5655 PERMIT NO.
DATE WELL COMPLED IN THE PROPERTY OF THE PROPE	Depth of Well 22 / 5 6 26 20 (TO NEAREST FOOT)	FROM "PERMIT TO DRILL WELL CE - 88 - 1 2 84 28 29 30 31 32 33 34 35 36 3
ONER Boyce, Charles BEET OR RED Carpenters P	first name TOWN D	
SREET OR RFD <u>Carpenters</u> Bubbivision <u>Greenbank Farms</u>	SECTION	erryville, Md.
WELL LOG Not required for driven wells STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING	WELL HAS BEEN GROUTED (Circle Appropriate Box). TYPE OF GROUTING MATERIAL CEMENT C.M. BENTONITE CLAY B.C.	PUMPING TEST HOURS PUMPED (nearest hour) 8 9
SCRIPTION (Use FEET Characteristics) SCRIPTION (Use FEET Characteristics) SCRIPTION (Use FEET FEET FEET FEET FEET FEET FEET FEE	AS 46 ater NO. OF BAGS NO. OF POUNDS	PUMPING RATE (gal. per min. 2 4 1 1 15
te clay 82 92 156 pw-white sand 92 156	GALLONS CHOWATHNULLAR SPACE DEPTH OF GROUT SEAL (to nearest foot) from from ft. to ft. to ft. to ft. to gentler 0 if from surface) casing CASING RECORD	METHOD USED TO MEASURE PUMPING RATE WATER LEVEL (distance from land surface) BEFORE PUMPING WHEN PUMPING TYPE OF PUMP USED (for test) A air P piston T turbine
	MAIN Nominal diameter Total depth of main casing TYPE (nearest inch) (nearest foot)	C centrifugal R rotary O other (describe below) J jet S submersible
	screen type or open hole insert appropriate code below C 2	DRILLER WILL INSTALL PUMP YES NO (CIRCLE) (YES or NO) IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS EXCEPT HOME USE TYPE OF PUMP INSTALLED PLACE (A.C.J.P.R.S.T.O) IN BOX - SEE ABOVE: CAPACITY: GALLONS PER MINUTE (to nearest gallon) PUMP HORSE POWER PUMP COLUMN LENGTH (nearest ft.) CASING HEIGHT (circle appropriate box and enter casing height)
	A 8 9 11 15 17 21	LAND SURFACE Delow Land Surface 1 (nearest foot)
A WELL WAS ABANDONED AND SEALE WHEN THIS WELL WAS COMPLETED	N SS SS TI	LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND/OR
E ELECTRIC LOG OBTAINED TEST WELL CONVERTED TO PRODUCT WELL PUR THIS WELL HAS BEEN CONSTRUCT	TED IN 56 60 III.	LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)
THEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCT CCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCT IND IN CONFORMANCE WITH ALL CONDITIONS STATED BOVE CAPTIONED PERMIT, AND THAT THE INFORMATION SENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEAMY KNOWLEDGE.	GRAVEL PACK L L L L L L L L L L L L L L L L L L L	House
DRILLERS IDENT. NO. DRILLERS SIGNATURE DRILLERS SIGNATURE	OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q	χω. <i>4</i>
MUST MATCH SIGNATURE ON APPLICATION	70 1 125 OTHER DATA	
SITE SUPERVISOR (sign. of driller or journey) responsible for sitework if different from permi	man IEEEGGGI E	1 2 2 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5

1/30 SEQUENCE NO.	STATE OF MARYLAND	45 DAYS AFTER WELL IS COMPLETED.
(DENV USE ONLY) 1 2 3 (THIS NUMBER IS TO BE PUNCHED		COUNTY NUMBER C5655
IN COLS. 3-6 ON ALL CARDS)	PLEASE FRINT ON THE	PERMIT NO. FROM "PERMIT TO DRILL WELL"
ST/CO USE ONLY DATE Received NION X 5 1990	Depth of Well 22 / 5 6 26	CE-88-1284
NO: X 5 1990 8 13 15 20	(TO NEAREST FOOT)	28 29 30 31 32 33 34 35 36 37
OWNER Boyce, Charles	Rdfirst nameTOWNPe	erryville, Md.
STREET OR RFD <u>Carpenters Pt</u> SUBDIVISION <u>Greenbank Farms</u>	SECTION	LOT 13
WELL LOG	GROUTING RECORD. WELL HAS BEEN GROUTED Yes N	3
Not required for driven wells STATE THE KIND OF FORMATIONS	(Circle Appropriate Box) TYPE OF GROUTING MATERIAL	PUMPING TEST
PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING	CEMENT CM BENTONITE CLAY BC	HOURS PUMPED (nearest hour)
DESCRIPTION (Use FEET Check if water bearing	NO. OF BAGS NO. OF POUNDS	PUMPING RATE (gal. per min. 2 4 1 15 to nearest gal.)
	GALLONS CNOVATANIULAR SPACE DEPTH OF GROUT SEAL (to nearest foot)	METHOD USED TO bucket MEASURE PUMPING RATE
low sand-clay 0 20	from ft. to ft.	WATER LEVEL (distance from land surface)
d-clay-gravel 20 82 te clay 82 92	(enter 0 if from surface)	BEFORE PUMPING 17 20 1 10 10 10
low-white sand 92 156	types ST CO	WHEN PUMPING 22 25 .
	(appropriate code STEEL CONCRETE P L OT	TYPE OF PUMP USED (for test) A air P piston T turbine
	below PLASTIC OTHER	27 27 other
	MAIN Nominal diameter Total depth CASING top (main) casing of main casing	C centrifugal R rotary O (describe below)
	CASING top (main) casing of main casing TYPE (nearest inch) (nearest foot)	J jet S submersible
	S 1 4 146 70	27
	E OTHER CASING (if used)	PUMP INSTALLED
	H C T 173 151	DRILLER WILL INSTALL PUMP YES NO
	C 3 1 2 125 151	(CIRCLE) (YES or NO)
	r G	MUST BE COMPLETED FOR ALL WELLS EXCEPT HOME USE
	or open hole ST BR HO	TYPE OF PUMP INSTALLED PLACE (A.C.J.P.R.S.T.O)
·	insert STEEL BRASS OPEN	IN BOX - SEE ABOVE:
:	code pelow PL OT	GALLONS PER MINUTE (to nearest gallon)
	PLASTIC OTHER	PUMP HORSE POWER 37 41
:	C 2 DEPTH (nearest ft.)	PUMP COLUMN LENGTH (nearest ft.)
	S T T 5 T T 5 G	(nearest it.) 43 47 ASING HEIGHT (circle appropriate box and enter casing height)
	A 6 9 11 15 17 21	LAND SURFACE (nearest
	s 2 3 24 26 30 32 36	below
CIRCLE APPROPRIATE LETTER A WELL WAS ABANDONED AND SEALED	R B B B B B B B B B B B B B B B B B B B	LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH AS
WHEN THIS WELL WAS COMPLETED	SLOT SIZE 1_1023	BUILDING, SEPTIC TANKS, AND/OR LANDMARKS AND INDICATE NOT LESS
TEST WELL CONVERTED TO PRODUCTION	- AUTADEST	THAN TWO DISTANCES
P WELL THEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED THEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED.		(MEASUREMENTS TO THE PARTY OF T
ACCORDANCE WITH COMMAN 28-15 IN THE INFORMATION PR	GRAVEL PACK L	
ABOVE CAPTIONED PERMIT, AND THAT THE BEST OF SENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.	FLOWING WELL INSERT EB 18 BOX 68 68	House
DATELERS IDENT. NO. 138	OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER)	<u> </u>
DRILLERS SIGNATURE	T (E.R.O.S.) W Q	Xwed
(MUST MATCH SIGNATURE ON APPLICATION)	70 72	
SITE SUPERVISOR (sign. of driller or journeyman	TELESCOPE LOG OTHER DATA CASING INDICATOR	
responsible for sitework if different from permittee	/ <u> </u>	The second of th

C 1 SEQUENCE NO.	STATE OF MARYLAND	45 DAYS AFTER WELL IS COMPLETED.
1 2 3 (DENV USE OINLY)	WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY	COUNTY Replacement
(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)	PLEASE PRINT OR TYPE	NUMBER PERMIT NO.
ST/CO USE ONLY DATE Received DATE WELL COMPLETED	Depth of Well	FROM "PERMIT TO DRILL WELL
JUN 1 2 1990 060390	22 19 5 26	C E - 8 8 - 1 2 2 8 26 29 30 31 32 33 34 35 36 3
8 13 15 20	(TO NEAREST FOOT)	20 29 30 31 32 33 34 33 38 3
OWNER LUSK MARVIN	first nameTOWN	harlestown.
STREET ON NED	SECTION	LOT
SUBDIVISION WELL LOG	GROUTING RECORD yes no	C 3
Not required for driven wells	WELL HAS BEEN GROUTED (Circle Appropriate Box)	1 2
STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH,	TYPE OF GROUTING MATERIAL	HOURS PUMPED (nearest hour)
THICKNESS AND IF WATER BEARING DESCRIPTION (Use FEET Check if water	CEMENT CM BENTONITE CLAY	
additional sheets if needed) FROM TO if water bearing	NO. OF BAGS O NO. OF POUNDS 36 O	to nearest gal.)
Clar F:11 0 4	DEPTH OF GROUT SEAL (to nearest foot)	METHOD USED TO MEASURE PUMPING RATE BUCKES
	from O ft. to 45 ft.	WATER LEVEL (distance from land surface)
Sand my 4 30	48 TOP 52 54 BOTTOM 58 (enter 0 if from surface)	BEFORE PUMPING 9 5
, , , , , ,	casing CASING RECORD	TI ZA
R=2 Clay. 30 80	types insert ST CO	22 25
	appropriate STEEL CONCRETE CODE	A gir P piston T turbine
0 1 white 80 130	below PLASTIC OTHER	P piston UT turbine
Reducite 80 130	MAIN Nominal diameter Total depth	C centrifugal R rotary O other (describ
12 2 2 2 1 AN 130 160	CASING top (main) casing of main casing TYPE (nearest inch) (nearest foot)	27 27 below)
CENTON		J jet S submersible
1 1 1 0 AV 160 185	60 61 4 66 70	27 27
white clay 160 185	E OTHER CASING (if used) A diameter depth (feet)	
mir	diameter depth (feet) inch from to	PUMP INSTALLED
med white 185 195 x	CA CALLED	DRILLER WILL INSTALL PUMP YES NO (CIRCLE) (YES or NO)
Mea William	11 1	IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS
DALLA.	screen type SCREEN RECORD	EXCEPT HOME USE
	or open hole ST BR HO	TYPE OF PUMP INSTALLED PLACE (A.C.J.P.R.S.T.O)
	/ insert STEEL BRASS OPEN	IN BOX - SEE ABOVE:
	code BHONZE HOLE	GALLONS PER MINUTE
	below PLASTIC OTHER	(to nearest gallon) PUMP HORSE POWER
	C 2	PUMP COLUMN LENGTH 37 41
	DEPTH (nearest ft.)	(nearest ft.) CASING HEIGHT (circle appropriate box
_		and enter casing height)
	C 8 9 11 15 17 27 1	49 LAND SURFACE
	s ² 23 24 26 30 32 36	below below (nearest foot)
CIRCLE APPROPRIATE LETTER		LOCATION OF WELL ON LOT
A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED	E 3 41 45 47 51	A SHOW PERMANENT STRUCTURE SUCH AS
E ELECTRIC LOG OBTAINED	SLOT SIZE 1 ZO 23	BUILDING, SEPTIC TANKS, AND/OR LANDMARKS AND INDICATE NOT LESS
TEST WELL CONVERTED TO PRODUCTION	DIAMETER (NEAREST INCH)	THAN TWO DISTANCES (MEASUREMENTS TO WELL)
P WELL THEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN THEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN	from to 10 cm	
HEREBY CERTIFY THAT THIS WELL PAS DEED CONSTRUCTION ACCORDANCE WITH COMAR 28.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRE-	GRAVEL PACK 185 175	140494
SENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.	IF WELL DRILLED WAS FLOWING WELL INSERT	
1/27	FIN BOX 68 68	
DRILLERS IDENT. NO.	OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER)	7,0
DRILLERS SIGNATURE	T (E.R.O.S.) W Q	HO LI
(MUST MATCH SIGNATURE ON APPLICATION)	70 72 74 73 76	1 . \ 01 \ \ 25'
School dies of diller or journeyman	TELESCOPE LOG OTHER DATA	CIRALIA
SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)	CASING INDICATOR	
	ORIGINAL	

O I BO DEQUENCE NO	OTATE OF A	MARVIAND . I	STATE PERMIT NUMBER
3489 SEQUENCE NO. (DP USE ONLY)	STATE OF MAPPLICATION FOR PE	RMIT TO DRILL WELL	CE-88-1228 70 fill in this form completely 79
IN COLS. 3-6 ON ALL CARDS)	please pri		
Date Received (APA) 287-3		B 3	LOCATION OF WELL
MAY 2 9 1990 OWNER INFORMA	ATION	1 2	Replacement
8 13	14 14 1	8 COUNTY	21
Owner Owner	First Name 34	Greensa	NK
15 Last Name Owner		23 SUBDIVISION	42
36 Street or RFD	55	SECTION 1	LOT 48 50
PRICLAMA	121903	MARTICIS	
57 Town 70	O State 72 Zip 78	52 NEAREST TOWN	7002
DRILLER INFORMATIO	MWD NO	MILES FROM TOWN (ente	a diff in town) 3 MI
Timothy J SEWARD	327	MILES FROM TOWN (ente	73 78 77 78
Drivers Name Sew Ard And Sc	77 License No. 80	B 4	MAN Pas
	· _	DIRECTION OF WELL FROM	11 NEAR WHAT ROAD 30
Firm Name	xensond 12-197	TOWN (CIRCLE BOX)	NORTH
Address ()	8-16-90	I INI	ON WHICH SIDE OF BOAD
Junstry & Decent	Date	NW 3 NE	(CIRCLE APPROPRIATE BOX) WEST TO BEST
Signature WELL INFORMATION			WEST STEAST
	11.71.	TOWN E	
APPROX. PUMPING RATE (GAL. PER MIN.)	3 12		34 4 (2) 37
AVERAGE DAILY QUANTITY NEEDED			DISTANCE FROM ROAD
(GAL PER DAY)	20	8-9 S 8-9	ENTER FT or MI 7 38 39
USE FOR WATER (CIRCLE APPR	OPRIATE BOX)	0	NOT TO BE FILLED IN BY DRILLER
			HEALTH DEPARTMENT APPROVAL
D HOME (SINGLE OR DOUBLE HOUSEH) FARMING (LIVESTOCK WATERING & AC	GRICULTURAL	Cecil	
IRRIGATION)		COUNTY NAME	COUNTY NO.
INDUSTRIAL, COMMERCIAL, STATE AN OTHER (REQUIRES APPROPRIATION P	D FEDERAL GOV.	STATE .	INSERT S
PUBLIC OR PRIVATE WATER COMPANY	Y (REQUIRES	DATE ISSUED	50 IM 17-17-17-18-18-18-18-18-18-18-18-18-18-18-18-18-
P APPROPRIATION PERMIT AND STATE	HEALTH DEPARTMENT	051790	OSIGNATURE EXP. DATE
APPROVAL) TEST, OBSERVATION, MONITORING (M		NORTH ZIS O	To EAST I A S A O O O
T APPROPRIATION PERMIT)		GRID 6 3 0 0 0	55 GRID 57 63
		SHOW MAJOR FEATUR	ES OF .
APPROXIMATE DEPTH OF WELL 20	FEET	BOX & LOCATE WELL . WITH AN X	
24	28	SOURCES OF DRILLING	3 WATER
APPROXIMATE DIAMETER OF WELL	NEAREST INCH	1. Well AT OFFICE	4
		2.	
METHOD OF DRILLING (3.	·
BORED (or Augered) JETTED	Jetted & <u>DRIVEN</u>	WRITE THE BOX NUM	
30 AIR-ROTary AIR-PERcussion	Hydraulic Rotary)	FROM THE MAP HERE	
<u>CABLE</u> <u>REV</u> erse <u>-ROT</u> ary	<u>DR</u> ive- <u>POINT</u>	[1M7	7
a	<u>-</u> -	E 1070	
other		- N <u>630</u>	000 000
REPLACEMENT OR DEEPEN		DRAW A SKETCH BELO	OW SHOWING LOCATION OF WELL IN
(CIRCLE APPROPRIATE BO		RELATION TO NEARBY	TOWNS AND ROADS AND GIVE TO NEAREST ROAD JUNCTION
N THIS WELL WILL NOT REPLACE AN E	EXISTING WELL	1	. TO NEARLOS TIONS SOCIOTION
THIS WELL WILL REPLACE A WELL THE ABANDONED AND SEALED	ITAL WILL DE	N	greaters PT Rd
39 S THIS WELL WILL REPLACE A WELL	THAT WILL BE USED	A _CA	7件. 1
AS A STANDBY			3/2/5
D THIS WELL WILL DEEPEN AN EXISTI			A SE SE SE SE SE SE SE SE SE SE SE SE SE
PERMIT NUMBER OF WELL TO BE REPLA	CED OH DEEPENDED		E ,
		<u> </u>	7 /
Not to be filled in by driller (OEF	USE ONLY)		18
APPROP. PERMIT NUMBER	GAP		/ >
54	63		<i>i</i>
FORCE NITIALS PERMIT No. CE	88-1228		
	2 73 74 75 78 77 78 79		
SPECIAL CONDITIONS			
		i e	· · · · · · · · · · · · · · · · · · ·

1. P46, 3/23/96 TO 1886 MER	EMERGENCY/TEMP NULIF ANY		07175	050147.1444550
B 1 4930 SEQUENCE NO. (DP USE ONLY)	STATE OF MAPPLICATION FOR PE			8 8 - 1 1 4 9
1 2 3 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)	please pri	and the second s		nis form completely 79
Date Received (APA) 0 3 2 3 7 0 OWNER INFORM 13 OWNER INFORM 15 Last Name Owner 93 8 L <	First Name 34 55 55 56 57 70 State 72 72 76	B 3 1 2 8 COUNTY B COUNTY 23 SUBDIVISION SECTION 44 46	LOCATION OF APPLE 17 LOT 79 48 50	WELL C4312 13 Green 13 191
DRILLER INFORMATION TO SELVACO	77 License No. 80 77 License No. 80 77 License No. 80 77 License No. 80 77 License No. 80 77 License No. 80 77 License No. 80 77 License No. 80 77 License No. 80 77 License No. 80 77 License No. 80	MILES FROM TOWN (enter B) 4 1 DIRECTION OF WELL FROM TOWN (CIRCLE BOX) N N E B-9 N N E B-9 N S E B-9	ON WHICH S (CIRCLE APP	IDE OF ROAD ROPRIATE BOX) WEST SENT TANCE FROM ROAD ENTER FT OR MI
USE FOR WATER (CIRCLE APP HOME (SINGLE OR DOUBLE HOUSEI F FARMING (LIVESTOCK WATERING & A IRRIGATION) INDUSTRIAL, COMMERCIAL, STATE A OTHER (REQUIRES APPROPRIATION PUBLIC OR PRIVATE WATER COMPAN APPROPRIATION PERMIT AND STATE APPROVAL)	HOLD UNIT ONLY) AGRICULTURAL ND FEDERAL GOV. PERMIT) NY (REQUIRES	Cecil COUNTY NAME STATE SIGNATURE DATE ISSUED 033090	NOT TO BE FILLE HEALTH DEPARTA	D IN BY DRILLER
TEST, OBSERVATION, MONITORING () APPROPRIATION PERMIT)	MAY REQUIRE	NORTH 2 2 9 0 0	55 GAID 27	0 7 8 0 0 0 s x
APPROXIMATE DEPTH OF WELL APPROXIMATE DIAMETER OF WELL METHOD OF DRILLING BORED (or Augered) JETTED 30 - AIR-ROTary AIR-PERcussion CABLE REVerse-ROTary	NEAREST INCH	BOX & LOCATE WELL WITH AN X SOURCES OF DRILLING 1. 2. 3. WRITE THE BOX NUMI FROM THE MAP HERE	G WATER	
REPLACEMENT OR DEEPER (CIRCLE APPROPRIATE I) THIS WELL WILL NOT REPLACE AN WELL ABANDONED AND SEALED 39 S THIS WELL WILL REPLACE A WELL AS A STANDBY D THIS WELL WILL DEEPEN AN EXIST PERMIT NUMBER OF WELL TO BE REPL (IF AVAILABLE) 41 Not to be filled in by driller (OE APPROP. PERMIT NUMBER FORCE INTRALS PERMIT No. CB 170 71	EXISTING WELL THAT WILL BE THAT WILL BE USED TING WELL ACED OR DEEPENDED 52	DRAW A SKETCH BELG RELATION TO NEARBY DISTANCE FROM WELL	TOWNS AND ROA	AD JUNCTION
SPECIAL CONDITIONS				

cb 7761	SEQUENCE NO. (DENV USE ONLY)	STATE OF MARYLAND WELL COMPLETION REPORT	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
(THIS NUMBER IS TO BE IN COLS. 3-6 ON ALL CAF	PUNCHED	FILL IN THIS FORM COMPLETELY	COUNTY NUMBER C4312
/CO USE ONLY E Received 13	DATE WELL COMPLET	22	PERMIT NO. FROM "PERMIT TO DRILL WELL C E - 8 8 - 1 1 4 9 28 29 30 31 32 33 34 35 36 3
ONER Meas	lost names	Ses PA first name TOWN CA	nacles town
REET OR RED	last name 2220	Facos Section	LOT
SUBDIVISION GREE	106	GROUTING RECORD Les no	C3
Not required for STATE THE KIND OF PENETRATED, THE THICKNESS AND IF	r driven wells F FORMATIONS IR COLOR, DEPTH, F WATER BEARING	WELL HAS BEEN GROUTED (Circle Appropriate Box) TYPE OF GROUTING MATERIAL CEMENT CM BENTONITE CLAY BC)	PUMPING TEST HOURS PUMPED (nearest hour)
SCRIPTION (Use a ditional sheets if needed	FEET Check if water to be annual control of the con	45 46-7	PUMPING RATE (gal. per min. 30 1 1 to nearest gal.)
Top Soil Eill drit led Clay Red I white	0 0' 6 5' 30 30 80	GALLONS OF WATER DEPTH OF GROUT SEAL (to nearest foot) from from ft. to SA BOTTOM 58 (enter 0 if from surface) Casing CASING RECORD types insert appropriate code CASING RECORD STEEL CONCRETE CONCRETE	METHOD USED TO MEASURE PUMPING RATE WATER LEVEL (distance from land surface) BEFORE PUMPING WHEN PUMPING TYPE OF PUMP USED (for test) A air P piston T turbine
Clay GRAY CLAY White CLAY	30 110	MAIN Nominal diameter Total depth of main casing TYPE (nearest inch) (nearest foot)	C centrifugal R rotary Other (describelow) J jet S submersible
ned white Siand.	130 140	Screen type or open hole insert appropriate code below OTHER CASING (if used) diameter depth (feet) inch from to SCREEN RECORD STEEL BRASS OPEN BRONZE HOLE PLASTIC OTHER	PUMP INSTALLED DRILLER WILL INSTALL PUMP (CIRCLE) (YES Or NO) IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS EXCEPT HOME USE TYPE OF PUMP INSTALLED PLACE (A.C.J.P.R.S.T.O) IN BOX - SEE ABOVE: CAPACITY: GALLONS PER MINUTE (to nearest gallon) PUMP HORSE POWER 37 41
A A WELL WAS ABA	OPRIATE LETTER ANDONED AND SEALED L WAS COMPLETED	DEPTH (nearest ft.) E 1	PUMP COLUMN LENGTH (nearest ft.) CASING HEIGHT (circle appropriate box and enter casing height) LAND SURFACE LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH AS BUILDING SEPTIC TANKS, AND/OR
HEREBY CERTIFY THAT THIS ACCORDANCE WITH COMAR AND IN CONFORMANCE WITH ABOVE CAPTIONED PERMIT. SENTED HEREIN IS ACCURATE MY KNOWLEDGE. DRILLERS IDENT. NO.	WELL HAS BEEN CONSTRUCTE 28.04.04 "WELL CONSTRUCTE 4 ALL CONDITIONS STATED IN AND THAT THE INFORMATION E E AND COMPLETE TO THE BES	DIAMETER (NEAREST INCH) DIN (NEAREST INCH) From 30 to 140 GRAVEL PACK 100 100 100 100 100 100 100 100 100 10	LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL) HELSE
SITE SUPERVISOR (si responsible for sitewor	gn. of driller or journeyma k if different from permitte	TELESCOPE LOG OTHER DATA DE) CASING INDICATOR	1 200

			THE REPORT MUCT BE CURNITTED WITHIN
1070	SEQUENCE NO.	STATE OF MARYLAND	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
ווס ו סו	(DENV USE ONLY)	WELL COMPLETION REPORT	
1 2 3	אואסעודט	FILL IN THIS FORM COMPLETELY	COUNTY C4294
(THIS NUMBER IS TO BE P IN COLS. 3-6 ON ALL CARD	טאטאבט	PLEASE PRINT OR TYPE	PERMIT NO.
ST/CO USE ONLY			FROM "PERMIT TO DRILL WELL
DATE Received	DATE WELL COMPLETED		
DCT 1 9 1989	101189	22 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	C E - 8 8 - 0 7 7 2 28 29 30 31 32 33 34 35 36 3
8 13	15 20	(TO NEAREST FOOT)	28 29 30 31 32 33 33 33 3
0105	er Wern	er	
OMINEH 19		37 QJ first name TOWN	Parry ville
On 1221 On 1 = 10	4 00000	SECTION	LDT
SUBDIVISION		OPOLITING DECORD	C 3
WELL	LOG	WELL HAS BEEN GROUTED (N)	
Not required for STATE THE KIND OF	CORMATIONS	(Circle Appropriate Box)	PUMPING TEST
DENETRATED THEIR	R COLOR, DEPTH,	TYPE OF GROUTING MATERIAL	HOURS PUMPED (nearest hour)
THICKNESS AND IF	WATER BEARING	CEMENT CM BENTONITE CLAY BC	HOURS POWED (Hearest Hour)
DESCRIPTION (Use	FEET Check	45 46	PUMPING RATE (gal. per min.
additional sheets if needed)	FROM TO bearing	NO. OF BAGS 5 NO. OF POUNDS 750	to nearest gal.)
Top Soil	0 6"	GALLONS OF WATER 17.5	METHOD USED TO BUCKES MEASURE PUMPING RATE
1000		DEPTH OF GROUT SEAL (to nearest foot)	WATER LEVEL (distance from land surface)
Clay Sand	6 10	from from ft. to 10 ft.	
1		48 TOP 52 54 BOTTOM 58 (enter 0 if from surface)	BEFORE PUMPING 50 20
10 mile	10 30	casing CASING RECORD	
SAND GRAVE		types ST CO	WHEN POWEING
1	37 60	TISELL CONCRETE	TYPE OF PUMP USED (for test)
SAND CLAY	30 60	appropriate code PL OT	
1 mit		\ helow /	A air P piston turbine
10000	60 80	PLASTIC OTHER	G other
GR Avel 1		MAIN Nominal diameter Total depth	centrifugal R rotary (describelow)
		CASING top (main) casing of main casing TYPE (nearest inch) (nearest foot)	27 27 27 27 500007
1	02 120	(modification)	J jet S submersible
whitechy	80 100	(Y L H 1 0 0 1	27 27
و میمه		60 61 63 64 66 70	
3,-	100 110 4	E OTHER CASING (if used)	
1 Fine	100 110 4	A OTHER CASING (if used) A diameter depth (feet) C inch from to	PUMP INSTALLED
mec il		c inch libiti	DRILLER WILL INSTALL PUMP YES NO
med Fine		Š	(CIPCLE) (YES or NO)
		Î N	IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS
		G	EXCEPT HOME USE
	1 1	screen type SCREEN RECORD	TYPE OF PUMP INSTALLED
		or open hole ST BR HO	PLACE (A,C,J,P,R,S,T,O)
		/ insert \ STEFI BRASS OPEN	IN BOX - SEE ABOVE:
İ		(appropriate) BRONZE HOLE Code	CAPACITY: GALLONS PER MINUTE
		below / PL UI	(to nearest gallon)
		PLASTIC OTHER	PUMP HORSE POWER
		[C 2	PUMP COLUMN LENGTH
		1 2 DEPTH (nearest ft.)	(nearest ft.)
			CASING HEIGHT (circle appropriate box
1		E 1 P L 100 110 21	and enter casing height)
ľ			49 LAND SURFACE
		2	— below (nearest foot)
		S 23 24 26. 30 32 36	49 50 51
CIRCLE APPRO	PRIATE LETTER	R 3	LOCATION OF WELL ON LOT
A A WELL WAS ABAI	NDONED AND SEALED WAS COMPLETED	E 38 39 41 45 47 51	A SHOW PERMANENT STRUCTURE SUCH AS
		SLOT SIZE 20 2 3 (NEAPEST	I BUILDING SEPTIC TANKS, AND/OR
E ELECTRIC LOG OF		DIAMETER (NEAREST	N LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES
TEST WELL CONV	ERTED TO PRODUCTION	OF SCREEN (NCH)	(MEASUREMENTS TO WELL)
PWELL	WELL HAS BEEN CONSTRUCTED IN	56 50	
ACCORDANCE WITH COMAR	26.04.04 "WELL CONSTRUCTION"	CDAVEL BACK 100 1100 1100	Haise
AND IN CONFORMANCE WITH	ALL CONDITIONS SIATED IN	GRAVEL FACIN	
SENTED HEREIN IS ACCURATE	AND COMPLETE TO THE BEST OF	FLOWING WELL INSERT	
MY KNOWLEDGE.	197	F IN BOX 68 68	_ V 50
DRIKLERS IDENT. NO.	4d9 3	OEP USE ONLY	1
1/1/1/1/1/1	Muand	(NOT TO BE FILLED IN BY DRILLER)	4 15
UNILLERS SIGNATURE		T (E.R.O.S.) W Q 74 75 76	1
(MUST MATCH SIGNATI	JRE ON APPLICATION)		1 0 1 2 Yt 27 -
1 K Chash	احتنس	"	liga real
SITE SUPERVISOR (sig	n. of driller or journeyman	TELESCOPE LOG OTHER DATA CASING INDICATOR	
responsible for sitework	if different from permittee)	CASING INDICATOR	

4,440,418189 16234 d-MZK	EMERGENCY/TEMP NO. IF ANY				
346 SEQUENCE NO. (DP USE ONLY)	STATE OF M		<u></u>	TATE PERMIT NUMBE	R
1 2 3 NUMBER IS TO BE PUNCHED	APPLICATION FOR PER please prin	·	C E	E = 88 = 07 in this form comp	7 2 etely ⁷⁹
N COLS. 3-6 ON ALL CARDS) Date Received (APA)		B 3	LOCATION	OF WELL CA:	294
090889 OWNER INFORM	ATION	CEC14		21	
8 EBER MEREP 95 Last Name Owner	First Name 34	23 SUBOIVISION			42
3 1 9 5 0 0 T A MAS	# 1 [V 07 / 18]P 55	SECTION 44 46	LOT 46	I 109 Popl	AR PT RC
57 IOWII	0 State 72 Zip 78	PERKXUI 52 NEAREST TOWN	LUE		71
DRILLER INFORMATION	183	. MILES FROM TOWN (ente	er 0 if in town)	75 M 1 78 77 78	
Driller's Name SEWARD & SO	V 77 License No. 80	B 4	POPI	LAR PT	Rd 3
=2526 ald County Rd. A	LEWARK DIE	DIRECTION OF WELL FROM TOWN (CIRCLE BOX)	''	NEAR WHAT ROAD	1927
Address Sewand	9/7/89 Date	N N N N N N N N N N N N N N N N N N N		IICH SIDE OF ROAD E APPROPRIATE BOX)	WEST STEAST
Stature WELL INFORMATION	N	W TOWN E			SOUTH
APPROX. PUMPING RATE (GAL. PER MIN.)	8 12	S _E		34 3 0 31 DISTANCE FROM ROA	
AVERAGE DAILY QUANTITY NEEDED (GAL PER DAY)	000	S _W S 8-9	. •	ENTER FT or	38 39
USE FOR WATER (CIRCLE APPR			NOT TO BE F HEALTH DEP	FILLED IN BY DRILLE PARTMENT APPROVA	ir NL
F FARMING (LIVESTOCK WATERING & A	GRICULTURAL	Cecil COUNTY NAME		COUN	TY NO.
INDUSTRIAL, COMMERCIAL, STATE AN	PERMII)	STATE SIGNATURE	<u> </u>	INSERT	s
PUBLIC OR PRIVATE WATER COMPAN P APPROPRIATION PERMIT AND STATE	Y (REQUIRES	DATE ISSUED 0 9 1 1 8 9 (O SIGNATURE	E. Smyre	3/11/9C
APPROVAL) TEST, OBSERVATION, MONITORING (NAPPROPRIATION PERMIT)	MAY REQUIRE	NORTH 6290 C	T. FAS		0 0
		SHOW MAJOR FEATUR	RES OF		X
APPROXIMATE DEPTH OF WELL 24	28	WITH AN X SOURCES OF DBILLIN	G_WATER		
APPROXIMATE DIAMETER OF WELL	NEAREST INCH	1. W ZLL AT OF	1-101-		
METHOD OF DRILLING BORED (or Augered) JETTED	(circle one) Jetted & <u>DRIVEN</u>	3. WRITE THE BOX NUM	BER ·		·
30 AIR-ROTary AIR-PERcussion	HOTARY Hydraulic Rotary) ORive-POINT	FROM THE MAP HERE			
CABLE REVerse-ROTary	<u>DA</u> NG- <u>FORM</u>	E 1070	2		
REPLACEMENT OR DEEPEN	NED WELLS .	N <u>C 2 0</u> DRAW A SKETCH BEL		000 000 CATION OF WEL	
(CIRCLE APPROPRIATE E	BOX)	RELATION TO NEARBY DISTANCE FROM WEL	Y TOWNS AND	ROADS AND GIVE	
THIS WELL WILL REPLACE A WELL ABANDONED AND SEALED	THAT WILL BE	N		MOC	
39 S THIS WELL WILL REPLACE A WELL		↑		· Et	
D THIS WELL WILL DEEPEN AN EXIST PERMIT NUMBER OF WELL TO BE REPL				Æ	
(IF AVAILABLE) 41	52	_		2500 Re =	•
Not to be filled in by driller (OE	PUSE ONLY)	5	ITE *	\$ 1. /E	·
APPROP. PERMIT NUMBER 54			1	1 /2	
FORCE INITIALS PERMIT No. C E -	- 8 8 - 0 7 7 2 72 73 74 75 76 77 78 79		popr		
SPECIAL CONDITIONS			٠.		

28#40.8/17/89#62276-MER	EMERGENCY/TEMP NO. IF ANY	·	CTA	TE PERMIT NUMBER
B 1 0852 SEQUENCE NO. (DP USE ONLY)	STATE OF I	1		
1 2 3 NUMBER IS TO BE PUNCHED	APPLICATION FOR PE	RMIT TO DRILL WELL int or type	QE 70 fill in	- 8 8 - 0 7 3 0 1 1 1 1 1 1 1 1 1
IN COLS. 3-6 ON ALL CARDS) Date Received (APA)		B 3	LOCATION	OF WELL Replacement
681789 OWNER INFORM	IATION	1 ded/4		
BAKER GEORGE	W	8 COUNTY		21
15 Last Name Owner	First Name 34	23 SUBDIVISION		42
36 PRIME IPI	d FURN	SECTION 1	LOT 48 5	50
PRREGUILLE TOWN	MD Z 1 9 0 3 70 State 72 Zip 78	PERRUVI 52 NEAREST TOWN	LLE	71
CHARLES # HAMILTON). TR 11 2	MILES FROM TOWN (ente	r O if in town)	M I 78 77 78
JONES & HAMILTON	77 License No. 80	B 4	PRINCI	PIO FURNACE (18
Firm Name 115, N. PARADISE Rd., Hde	G. 21078	DIRECTION OF WELL FROM TOWN (CIRCLE BOX)	11	NEAR WHAT ROAD 30 NORTH
Charles H Hameth	g - 8/15/89	N NE		H SIDE OF ROAD APPROPRIATE BOX) WEST
B 2 WELL INFORMATIO	N	W TOWN E		SOUTH
1 2 APPROX. PUMPING RATE (GAL. PER MIN.)	5			34 200 37
AVERAGE DAILY QUANTITY NEEDED (GAL PER DAY)		S _W S S _E 8-9	·	ENTER FT or MI
USE FOR WATER (CIRCLE APPR	•	8	NOT TO BE FIL HEALTH DEPAR	LED IN BY DRILLER RTMENT APPROVAL
D HOME (SINGLE OR DOUBLE HOUSEH	OLD UNIT ONLY)	Cecil		•
F FARMING (LIVESTOCK WATERING & A		COUNTY NAME		COUNTY NO.
INDUSTRIAL, COMMERCIAL, STATE ANOTHER (REQUIRES APPROPRIATION	ID FEDERAL GOV. PERMIT)	STATE SIGNATURE	<u> </u>	INSERT S
PUBLIC OR PRIVATE WATER COMPAN	IY (REQUIRES	0 8 2 3 8 9	Thule	E. Sungar 2/2
APPROVAL)		43 48 C	O SIGNATURE EAST O GRID	()EXP. DATE
T TEST, OBSERVATION, MONITORING (MAPPROPRIATION PERMIT)	MAY REQUIRE	GRID 50 SHOW MAJOR FEATUR	55	57 63
APPROXIMATE DEPTH OF WELL 24	FEET 28	BOX & LOCATE WELL WITH AN X		
	NEAREST	SOURCES OF DRILLING	G WAIER	
APPROXIMATE DIAMETER OF WELL	inch	2.	×	t
METHOD OF DRILLING	(circle one) Jetted & <u>DRIVEN</u>	3.	250	•
BORED (or Augered) JETTED 30, AIR-ROTary AIR-PERcussion	ROTARY (Hydraulic Rotary)	WRITE THE BOX NUMI		
CABLE REVerse_ROTary	• <u>DRive-POINT</u>			
other		E 107		na
REPLACEMENT OR DEEPEN	VED WELLS	N 63	0 ~ 0	
(CIRCLE APPROPRIATE E		I DELATION TO NEARBY	' TOWNS AND F	LOCATION OF WELL IN ROADS AND GIVE
N THIS WELL WILL NOT REPLACE AN	EXISTING WELL	DISTANCE FROM WELL	_ TO NEAREST	ROAD JUNCTION
THIS WELL WILL REPLACE A WELL ABANDONED AND SEALED		N		
39 S THIS WELL WILL REPLACE A WELL AS A STANDBY	THAT WILL BE USED	1 1	•	a. it
D THIS WELL WILL DEEPEN AN EXIST			.1	
PERMIT NUMBER OF WELL TO BE REPL (IF AVAILABLE) 41	ACED OR DEEPENDED	$ \cdot $	will	×
Not to be filled in by driller (OE	P USE ONLY)	سرمندن		
APPROP. PERMIT NUMBER 54	G A P 63	Punition		: *
FORCE WRITE INTIALS PERMIT No. C 18-	- 8 8 - 0 7 3 0 72 73 74 75 78 77 78 79			
OPTOWN CONDITIONS	•			

				•		
183	SEQU	ENCE N	О.	STATE OF MARYLAND	THIS REPORT MUST BE SUBMITTED WI 45 DAYS AFTER WELL IS COMPLETED.	iTHIN
C	(DENV BE PUNCHED	USE ON		WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE	COUNTY NUMBER Replacement	
IN OLS. 3-6 ON ALL	CARDS)				PERMIT NO.	NA/FLI
STICO USE ONLY DATE Received	DATE W	ELL COM	IPLETED	Depth of Well	FROM "PERMIT TO DRILL	<u>- WELL</u>
SER X 6 1983	08	30	89	22 2 2 4 26	C E - B B - 0 7 28 29 30 31 32 33 34 3	35 36 C
13	15		20	(TO NEAREST FOOT)		
OWNER			KER,	0 = 0/= / 2	IN PERRUVILLE, mg. 219	713
STREET OR RFD_	last name	157	6 F	RINCIPIO FINANTE PR	LOT	
SBDIVISION				SECTION		
W	ELL LOG	ollo	1	GROUTING RECORD WELL HAS BEEN GROUTED	$ \begin{array}{c c} \hline N & C & 3 \\ \hline N & 1 & 2 \end{array} $	
STATE THE KIN	ed for driven w	IONS		(Circle Appropriate Box)	1 2 PUMPING TEST	-
DENETRATED T	THEIR COLOR	. DEP I H	. 1	TYPE OF GROUTING MATERIAL	HOURS PUMPED (nearest hour)	_
THICKNESS AN	ID IF WATER E	EAHING		CEMENT C N BENTONITE CLAY	<u> </u>	TT
DESCRIPTION (Use additional sheets if nee			Check if water bearing	NO. OF BAGS 23 NO. OF POUNDS 2	PUMPING RATE (gal. per min. 4 to nearest gal.)	15
additional directs in its				GALLONS OF WATER 1/5	METHODUSED TO BUCKET - 1	Wat
1-11] [DEPTH OF GROUT SEAL (to nearest foot)	MEASURE PUMPING RATE L	20)
YELLOW,			1	from D ft. to 90	tt. WATER LEVEL (distance from land surface	, ,
SANdy] [i	48 TOP 52 54 BOTTOM (enter 0 if from surface)	BEFORE PUMPING 77 20	
MINI	10	25	ľ	casing <u>CASING RECORD</u>	WHEN PUMPING 780	
			· •		10 1 22 .25	
1_ ′	ļ			appropriate STEEL CON		
	12	45	i 1	code below PL		turbine
RED CLAY	, 25	70		PLASTIC OT		other
1 129 027	[MAIN Nominal diameter Total dep	Certainagai [11]	(descrit below)
1 • '		ł		CASING top (main) casing of main ca TYPE (nearest inch) (nearest for	ot) $\frac{27}{4}$	below)
		}	1	(Hearest High) (Hearest H	J jet S submersible	
	سرر ر	67		PL 6 90	$\frac{1}{70}$ $\frac{27}{27}$	
BROWN	23	61		60 61 63 64 66 E OTHER CASING (if used)	70	
BROWN	ĺ	`		A diameter depth (feet)	PUMP INSTALLED	
- 31724					DRILLER WILL INSTALL PUMP YES	s \hat{A}
	l				(CIBCLE) (YES or NO)	
		_ ـ ا	-	s - z -	I IF DRILLER INSTALLS PUMP, THIS SECT	LION
COET Car	-167	85		G L	MUST BE COMPLETED FOR ALL WELL EXCEPT HOME USE	.5
SOFT GRE	EN	ł		screen type SCREEN RECORD or open hole	TYPE OF PUMP INSTALLED	
Rock			}		PLACE (A,C,J,P,R,S,T,O) IN BOX - SEE ABOVE:	29
			1	I / SIEEL BRASS V	OLE CAPACITY:	$\neg \neg$
					GALLONS PER MINUTE	35
MEdium	\ m-	- 224	1		(to nearest gallon) THER PUMP HORSE POWER	
	183	227	1	C 2	PUMP COLUMN LENGTH 37	41
HARD GR	EEN	1	1	1 2 DEPTH (nearest ft.)	(nearest ft.)	47
+ GRAY				14/A DATE 12/2 K	CASING HEIGHT (circle appropriate box and enter casing height	 (t)
\ -						4
_ Rock	l		ļ		T LAND SURFACE	(nearest
				S 2 23 24 26 30 32	below J . (2)	foot)
CIRCLE A	PPROPRIATE I	ETTER		C - 23 - 24 · · · · · · · · · · · · · · · · · ·	~~~~ <u>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</u>	
A A WELL WAS	ABANDONED	AND SE	ALED	R 3 41 45 47	LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE S	SUCH A
WHEN THIS V	WELL WAS CO	MPLETE	יט	N W W	I I BUILDING SEPTIC TANKS, AND/OR	₹
E ELECTRIC LO	G OBTAINED			SLOT SIZE 123 (NEAR	IN LANDMARKS AND INDICATE NOT LE	ESS
	CONVERTED 7	ro Prod	UCTION	OF SCREEN INCH)	(MEASUREMENTS TO WELL)	
WELL SERBY CERTIFY THAT	THIS WELL HAS B	EEN CONS	TRUCTED IN	56 60 to	N	120
CORDANCE WITH CO	MAR 26.04.04 V	TIONS STA	TED IN THE	GRAVEL PACK I	- Parainin Furn	ACE
AND IN CONFORMANCE ABOVE CAPTIONED PER SENTED HEREIN IS ACC				ILL METT DHIFTED MV2	PRINCIPIO	,
Y KNOWLEDGE.	OI INITE AND COM			FLOWING WELL INSERT F IN BOX 68	House	
RILLERS IDENT.	NO. 1 1/2	2	. نهـ	OEP USE ONLY	PRINCIPIO FURN. House	
	JJ.	-//	m. 0	(NOT TO BE FILLED IN BY DRILLER)	1	
DRILLERS SIGNAT	-//·///// TURE	mu		т (E.R.O.S.)	VQ 75 78 190	
MUST MATCH SIG	NATURE ON	APPLICAT	TON)			
				70 72 CT	R DATA 20 IX WELL	
OFF SUBERVISOR	2 (sign of drille	er or iour	neyman	TELESCOPE LOG OTHI	KEAR A	LiNE

10- Fee 8/18/89 Test-MI	EMERGENCY/TEMP NO. IF ANY			
B 1 OF Q O SEQUENCE NO.	STATE OF	MARYLAND	STATE	PERMIT NUMBER
	PERMIT TO	DRILL WELL	CE-8	38-0722
(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)	please pri	nt or type	70 fill in th	is form completely 79
Date Received (APA)		B 3	LOCATION OF	WELL
0 8 / 8 7 7 OWNER INFO	RMATION	Cecill		Test Well
York Bull Din	9 ProDucts	8 COUNTY		ŤIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
P 0 B0K 1708		23 SUBDIVISION		42
38 Street or RFD	IDIAI VAIUAS	SECTION 44 48	LOT 48 50	
57 Town	70State 72 Zip 76	SZ NEAREST TOWN	140 MU	
<i>DRILLER INFORM</i> Paul M. Fabiszak		MILES FROM TOWN (en	ter 0 if in town)	M I J
Driller's Name	77 License No. 80	8 4		
G. Edgar Harr Sons' (DIRECTION OF WELL FROM	11 NEAR	WHAT ROAD 30
12047 Falls Road Co		TOWN (CIRCLE BOX)		NORTH
Signature M. High	8-16-89	N N N N N N N N N N N N N N N N N N N	ON WHICH SI	DE OF ROAD IOPRIATE BOX) WILE FAST
B 2 WELL INFORMAT		W (NWCT) W		SOUTH
APPROX. PUMPING RATE (GAL. PER MIN			34 [4	500 37
AVERAGE DAILY QUANTITY NEEDED		S _W S _E S ₈₋₉		NCE FROM ROAD
(GAL. PER DAY)	20	8-9 5 8-9		ENTER FT or MI 7 38 39
USE FOR WATER (CIPCLE A			NOT TO BE FILLED HEALTH DEPARTM	
HOME (SINGLE OR DOUBLE HOU		Cecil		
IRRIGATION) INDUSTRIAL, COMMERCIAL, STA		COUNTY NAME STATE		COUNTY NO.
22 LI OTHER (REQUIRES APPROPRIATI	ON PERMIT)	SIGNATURE	01 00-	INSERT S
PUBLIC OR PRIVATE WATER COM P APPROPRIATION PERMIT AND ST	APANY (REQUIRES ATE HEALTH DEPARTMENT	082189	O SIGNATURE	2/21/9
T TEST, OBSERVATION, MONITORI	NG (MAY REQUIRE	NORTH 64500	EAST AT	37/000
L' APPROPRIATION PERMIT)		50 SHOW MAJOR FEATUR	55 57 RES OF	63
APPROXIMATE DEPTH OF WELL 24	FEET 29	BOX & LOCATE WELL.		7-95
	/ NEADEST	SOURCES OF DRILLING	G WATER	
APPROXIMATE DIAMETER OF WELL	inch inch	1. 2.	9	
METHOD OF DRILLI		3.		January January
BORED (or Augered) JETTE AIR-ROTary AIR-PERcussion	ROTARY (Hydraulic Rotary)	FROM THE MAP HERE		
CABLE REVerse-ROTar	y <u>DR</u> ive-POINT		/	
other		E 1070		barak /
REPLACEMENT OR DEEP	PENED WELLS	DRAW A SKETCH BELO	000	ATION OF WELLIN
(CIRCLE APPROPRIA	TE BOX)	RELATION TO NEARBY DISTANCE FROM WEL	TOWNS AND ROA	DS AND GIVE
N HIS WELL WILL NOT REPLACE THIS WELL WILL REPLACE A WE		N DISTANCE FROM WELL	95	-
ABANDONED AND SEALED			7-95	
AS A STANDBY				•
D THIS WELL WILL DEEPEN AN EX		0]٤	1
(IF AVAILABLE) 41	52		15	
Not to be filled in by driller (DEP USE ONLY)] /	テ	
APPROP. PERMIT NUMBER	G A P		R D	
WRITE DERMIT NO COL	E - 8 8 - 0 7 2 2		RT. 4	ō _
FORCE INITIALS PERMIT No. C F	72 73 74 75 78 77 78 79		RT. 1	
SPECIAL CONDITIONS				-

11L 271		UENCE		STATE OF MARYLAND	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.		
THI NUMBER IS TO	BE PUNCHE	VUSE O	INLY)	WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE.	COUNTY NUMBER		
COLS. 3-6 ON ALL			MONETER	Depth of Well	PERMIT NO FROM "PERMIT TO DRILL WELL"		
ATTEReceived x 7 1989	DATE W		MPLETER	22 150 28	CE-88-0722 2 2 3 3 2 3 3 3 3 3 3		
3 . 13	15	BIII	CDINE				
· · · · · · · · · · · · · · · · · · ·	ORK last nam			1708 first name TOWN	YORK PA 17405		
TREET OR RFD	WINC	N K	ORD	SECTION	LOT		
WE	Li rod	!! :		GROUTING RECORD WELL HAS BEEN GROUTED.	C 3		
STATE THE KINE	of FORMA	TIONS		(Circle Appropriate Box)	1 2 PUMPING TEST		
PENETRATED, T	HEIR COLOF	l DEPT⊦	t, 3	TYPE OF GROUTING MATERIAL CEMENT C. M. BENTONITE CLAY B.C.	HOURS PUMPED (nearest hour)		
ES IPTION (Use	FE	ET	Check if water		PUMPING RATE (gal. per min. 5		
ddifficial sheets if need	ded) FROM	ТО	bearing	NO. OF BAGS 28 NO. OF POUNDS 2808	to nearest gal.) 11 15		
		5		DEPTH OF GROUT SEAL (to nearest foot)	METHOD USED TO MEASURE PUMPING RATE LAIR		
PERBURSEN		3		from O ft. to 77 ft.	WATER LEVEL (distance from land surface)		
PNS			l ·	48 TOP 52 54 BOTTOM 58 (enter 0 if from surface)	BEFORE PUMPING 34		
97023	5	30		casing CASING RECORD	WHEN PUMPING 130		
	.			types ST CO	22 25		
E COUN CLA	30	75		appropriate code STEEL CONCRETE	TYPE OF PUMP USED (for test) P piston T turbine		
				below PLASTIC OTHER	27 27 27		
3/CNITE	75	150	X	MAIN Nominal diameter Total depth	C centrifugal R rotary O (describe		
_		-		CASING top (main) casing of main casing	27 below)		
				TYPE (nearest inch) (nearest foot)	J jet S submersible		
					य य		
				E OTHER CASING (if used)			
		1		diameter depth (feet)	PUMP INSTALLED		
			l	. ه ۲۰۰۰ ا ا	DRILLER WILL INSTALL PUMP YES (NO)		
_				ST 10 .0 .61	(CIRCLE) (YES or NO) IF DRILLER INSTALLS PUMP, THIS SECTION		
			1	R C	MUST BE COMPLETED FOR ALL WELLS		
			Ì	screen type SCREEN RECORD	EXCEPT HOME USE TYPE OF PUMP INSTALLED		
			}	or open hole ST BR HO	PLACE (A,C.J.P.R.S.T.O) IN BOX - SEE ABOVE:		
				(appropriate) STEEL BRONZE HOLE	CAPACITY:		
				code below PL OIT	GALLONS PER MINUTE (to nearest gallon)		
				PLASTIC OTHER	PUMP HORSE POWER		
				C 2	PUMP COLUMN LENGTH		
•				DEPTH (nearest, ft)	(nearest ft.) CASING HEIGHT (circle appropriate box		
				[1 HO 777 1 150 1	and enter casing height)		
,					LAND SURFACE (nearest		
_	ļ			S 23 24 28 30 32 36	below below foot)		
CIRCLE APP	ROPRIATE L	ETTER			LOCATION OF WELL ON LOT		
A WELL WAS AF WHEN THIS WE	BANDONED A LL WAS COM	AND SEA APLETE	ALED D	E 3 4 51 45 47 51	A SHOW PERMANENT STRUCTURE SUCH AS		
ELECTRIC LOG				SLOT SIZE 123	BUILDING, SEPTIC TANKS, AND/OR LANDMARKS AND INDICATE NOT LESS		
TEST WELL CO		PRODI	UCTION	DIAMETER (NEAREST INCH)	THAN TWO DISTANCES		
WELL	C WELL HAS BE	EN CONST	RUCTED IN	OF SCREEN 58 1 50 INCH) from to	(MEASUREMENTS TO WELL)		
CEMPANCE WITH COMA	PI 28.04.04 "WE	IONS STAT	ED IN THE	GRAVEL PACK	*		
CAPTIONED PERMIT	AME THAT THE		III.IN PRE-	IF WELL DRILLED WAS FLOWING WELL INSERT	500'		
KNOWLEDGE.				FIN BOX 68 68	890'		
ERS IDENT. NO	759	Υ	ــ	OEP USE ONLY	800' 12		
toul W. L		·		(NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W.Q.	73		
RILLERS SIGNATUR	TUPE ON AF	PLICATI	ON)	74 75 78	1 3		
10-	Musi		•	70 72	WINC		
TE SUPERVISOR (S	ign, of driller	or journ	eyman	TELESCOPE LOG OTHER DATA CASING INDICATOR	19		

12.440.7/17/89#62174-MS	EMERGENCY/TEMP NO. IF ANY		· .	
SEQUENCE NO.	STATE OF M	IARYLAND		RMIT NUMBER
(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)	APPLICATION FOR PE		اللباللباللباللبا	8 - 0 7 0 2 form completely 79
Date Received		B 3	LOCATION OF W	ELL
07/187 OWNER INFORM	ATION	CECIL		Chestnut Pt.
CHESTWOT PT M	HEARK	8 COUNTY		
S C H E S T W T F	First Name 34	23 SUBOIVISION SECTION	LOT	SCAESTAUT OT.
PERRYVILLE 57 Town	Md2 1903 70State 72 Zip 76	CHARLET 52 NEAREST TOWN	OUNT	
R S F.W A R.	1273	MILES FROM TOWN (en	ter 0 if in town) 73	7 M I
Driller's Name	77 License No. 80	B 4	CARPEN	TERS PT Rd
Film Name 9 C2 C O L J COUNTY RO	I NEWARK DE	DIRECTION OF WELL FROM TOWN (CIRCLE BOX)	NEAR V	VHAT ROAD · 30
Address Julia	7/3/89	N 8 N E 8-9	ON WHICH SIDE	E OF ROAD
B 2 WELL INFORMATION)N	W TOWN E		south
APPROX. PUMPING RATE (GAL. PER MIN.)	8 12		34 💆	37 ICE FROM ROAD
AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY)	000 0 1 20	S _W S S _E 8-9	DISTAN	ENTER FT or MI 18 39
USE FOR WATER (CIRCLE APP	PROPRIATE BOX)		NOT TO BE FILLED I	N BY DRILLER NT APPROVAL
D HOME (SINGLE OR DOUBLE HOUSE FARMING (LIVESTOCK WATERING &	HOLD UNIT ONLY)	Cecil		
IRRIGATION)	•	COUNTY NAME OEP	1.15-	COUNTY NO. STATE HEALTH S INSERT S
22 INDUSTRIAL, COMMERCIAL, STATE OTHER (REQUIRES APPROPRIATION	N PERMII)	SIGNATUREDATE	01 08	. 41
PUBLIC OR PRIVATE WATER COMP	ANY (REQUIRES E HEALTH DEPARTMENT	081089(CO SIGNATURE	2/10/ EXP. DATE
T TEST, OBSERVATION, MONITORING APPROPRIATION PERMIT)	G (MAY REQUIRE	GRID 50	O O GRID 10	78000
APPROXIMATE DEPTH OF WELL 1/2 5	FEET	SHOW MAJOR FEATU BOX & LOCATE WELL WITH AN X		7
APPROXIMATE DIAMETER OF WELL	NEAREST INCH	SOURCES OF DRILLIN		
METHOD OF DRILLIN	G (circle one)	- 2. 3.		
BORED (or Augered) JETTED	Jetted & DRIVEN	WRITE THE BOX NUM		
30- AIR-ROTary AIR-PERcussion CARLE REVerse-ROTary	AOTARY Hydraulic Rotary) DRive-POINT	PROW THE WAT THE		6
<u> </u>		E (67	000	
other	NED WELLS	N 620	000	TION OF WELL IN
(CIRCLE APPROPRIATION THIS WELL WILL NOT REPLACE A	E BOX)	DRAW A SKETCH BEL RELATION TO NEARB DISTANCE FROM WE	Y TOWNS AND ROAD	DS AND GIVE
THIS WELL WILL REPLACE A WEL	L THAT WILL BE	N /		
ABANDONED AND SEALED THIS WELL WILL REPLACE A WEL AS A STANDBY	L THAT WILL BE USED	MANUTAIN		
S AS A STANDBY D THIS WELL WILL DEEPEN AN EXIS	STING WELL	HAL Rd	TE	_
PERMIT NUMBER OF WELL TO BE REF		No ACH	557	
Not to be filled in by driller (O	EP USE ONLY)		FSTUUT PT PL	,
APPROP. PERMIT NUMBER CEGG	GAPO20	The state of the s	•	
FORCE SINTIALS PERMIT NO. C E	- 8 8 - 0 7 0 2 72 73 74 75 78 77 78 79	13%		
SPECIAL CONDITIONS	·			

		and the second s	
1 1807	SEQUENCE NO.	STATE OF MARYLAND	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
1 2 3 (THIS NUMBER IS TO BE F	(DENV USE ONLY)	WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE	COUNTY NUMBER Chestnut Pt. MHP
COLS. 3-6 ON ALL CAR	DS)	FLEASE FILLY SITTLE	PERMIT NO.
DATE Received	DATE WELL COMPLETED	Depth of Well	FROM "PERMIT TO DRILL WELL
NOV 1 7 1939	002087	22 1 0 5 26	C E - 8 B - 0 7 D 2 28 29 30 31 32 33 34 35 36 3
13	15 20	(TO NEAREST FOOT)	
GANIACU	Ist name exist No	TPT RX first name TOWN	Offailes Town
SINCE! ON IN D		M H PACK SECTION	LOT
BDIVISIONWELL	/53/ //	GROUTING RECORD NO NO	C 3
Not required for	r driven wells	WELL HAS BEEN GROUTED N	1 2
STATE THE KIND OF PENETRATED, THEIR	FORMATIONS R COLOR DEPTH	(Circle Appropriate Box) TYPE OF GROUTING MATERIAL	PUMPING TEST
THICKNESS AND IF	WATER BEARING	CEMENT CM BENTONITE CLAY	HOURS PUMPED (nearest hour)
DESCRIPTION (Use additional sheets if needed)	FEET Check if water bearing	45 48 6	PUMPING RATE (gal. per min. // 2
	0 67	GALLONS OF WATER	to nearest gal.) METHOD USED TO
TOP 3012	3'	DEPTH OF GROUT SEAL (to nearest foot)	MEASURE PUMPING RATE LASTE LETERAL WATER LEVEL (distance from land surface)
-C/Ay 3161	6 4 3	from 6 ft. to 6 o ft.	
= 9 And 9 x Avel	3' 28'	(enter 0 if from surface)	17 20
Clay Sies gard gravel	28 2564	casing CASING RECORD types	WHEN PUMPING 95
	28/4 60	insert CONCRETE	TYPE OF PUMP USED (for test)
BAND GIAVEL	28,67 60	appropriate code PL OT	A air P piston T turbine
gray with rold	60 80	below PLASTIC OTHER	27 27 27 other
1000		MAIN Nominal diameter Total depth	C centrifugal R rotary O (describ
CIVIY		CASING top (main) casing of main casing TYPE (nearest inch) (nearest foot)	27 27 below)
A PONCE	80 105	TIPE (nearest man) (nearest test)	jet Submersible
med Lorris		60 61 63 64 66 70	27 21
med coarse		E OTHER CASING (if used)	
		diameter depth (feet) H inch from to	PUMP INSTALLED
		lc	DRILLER WILL INSTALL PUMP YES NO
		A L L L L L L L L L L L L L L L L L L L	(CIRCLE) (YES or NO) IF DRILLER INSTALLS PUMP, THIS SECTION
		N G	MUST BE COMPLETED FOR ALL WELLS EXCEPT HOME USE
		screen type SCREEN RECORD or open hole	TYPE OF PUMP INSTALLED
			PLACE (A,C,J,P,R,S,T.O) IN BOX - SEE ABOVE:
Γ		(appropriate) STEEL BRASS OF EN	CAPACITY: GALLONS PER MINUTE
		code below PL OT	(to nearest gallon)
		PLASTIC OTHER	PUMP HORSE POWER 37 41
· .			PUMP COLUMN LENGTH (nearest ft.)
		DEPTH (nearest ft.)	CASING HEIGHT (circle appropriate box
#		$\begin{bmatrix} E & 1 & 0 & 2 & 2 & 5 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1$	and enter casing height)
1		A 8 9 11 15 17 21	LAND SURFACE (nearest
			— below) (notified foot)
CIRCLE APPRO	OPRIATE LETTER		LOCATION OF WELL ON LOT
A WELL WAS ABA	NDONED AND SEALED WAS COMPLETED	E 3 47 51	A SHOW PERMANENT STRUCTURE SUCH AS
		SLOT SIZE 12023	BUILDING, SEPTIC TANKS, AND/OR N LANDMARKS AND INDICATE NOT LESS
T TEST WELL CON	VERTED TO PRODUCTION	DIAMETER 4 (NEAREST	I THAN TWO DISTANCES
I PY WELL		UF SCHEEN 56 60	(MEASUREMENTS TO WELL)
	WELL HAS BEEN CONSTRUCTED I 28.04.04 "WELL CONSTRUCTION		CAPENTER PT RX
TAND IN CONFORMANCE WITH	A ALL CONDITIONS STATED IN TH AND THAT THE INFORMATION PRE E AND COMPLETE TO THE BEST O	F IF WELL DRILLED WAS	
SENTED HEREIN IS ACCURATE MY KNOWLEDGE.		FLOWING WELL INSERT F IN BOX 68] 30
DRILLERS (DENT): NO.	283	OFP LISE ONLY	∀ .
T OR I. I.	eware	(NOT TO BE FILLED IN BY DRILLER)	73010
DRILLERS SIGNATURE	TIPE ON APPLICATIONS	T (E.R.O.S.) W Q	Lowed
(MUST MATCH SIGNAT	URE ON APPLICATION)	70 72	170use/
STE CUREDISON /air	on, of driller or journeyman	TELESCOPE LOG OTHER DATA	The state of the state of
A SULE SUPERVISOR ISI	ALL MERICAL OF TARREST AND THE PARTY OF THE	INDICATOR	

1147107 62000 11 11-14		- -		
OOO7 SEQUENCE NO.	STATE OF M		STATE PERMIT NU	
1 23 NUMBER IS TO BE PUNCHED	APPLICATION FOR PER please prin		C = 88 - 8	0 6 9 6 Ompletely ⁷⁹
IN COLS. 3-6 ON ALL CARDS)		B 3	LOCATION OF WELL	
Date Received (APA) OWNER INFORM	· 1	1 2		C4371
8 13 13 14 CN (// M		8 COUNTY	FARMS	
15 Last Name Owner	First Name 34	23 SUBDIVISION	N/4 C 10 10 1	42
938 AFF dS Red or RFD	55	SECTION	LOT 3 TO ARE	EN BANK
ELKTOU TOWN	4 1 1 9 2 1 0 \$1ate 72 Zip 76	CHARLES	TO WY III	71
DRIJLER INFORMATION	ON AG3	52 NEAREST TOWN MILES FROM TOWN (ente	er () if in town)	M I
Driller's Name	77 License No. 80	B 4	[[[]] [] [] [] []	7 01
RJ SEWARD SON	2/ // - // 4	DIRECTION OF WELL FROM	11 NEAR WHAT RO	DAD 30
2526 old County A	L NEWARADIE	TOWN (CIRCLE BOX)		NORTH
Address Signature	8/4/69 pate	8 8 9 NE 8-9	ON WHICH SIDE OF ROAI (CIRCLE APPROPRIATE B	
B 2 WELL INFORMATIO	N	W TOWN E	,	south 7
1 2 APPROX. PUMPING RATE (GAL. PER MIN.)			34 / 5	37
AVERAGE DAILY QUANTITY NEEDED	8 12		DISTANCE FROM	FT or MI
(GAL PER DAY)	20	S 8-9 8	NOT TO BE FILLED IN BY DR	38 39
USE FOR WATER (CIRCLE APPR			HEALTH DEPARTMENT APPR	ROVAL
D HOME (SINGLE OR DOUBLE HOUSE)	GRICULTURAL	Cecil		COUNTY NO.
IRRIGATION) INDUSTRIAL, COMMERCIAL, STATE AN	•	COUNTY NAME STATE		
OTHER (REQUIRES APPROPRIATION	PERMII)	SIGNATURE	11050	ISERT S
PUBLIC OR PRIVATE WATER COMPAN P APPROPRIATION PERMIT AND STATE	HEALTH DEPARTMENT	081089	Charle, Sun	2/10/9 EXP. DATE
APPROVAL) TEST, OBSERVATION, MONITORING (I	MAY REQUIRE	NORTH 6290	O O EAST 1078	0 0 0
APPROPRIATION PERMIT)		50 SHOW MAJOR FEATUR	55 57 RES OF	X
APPROXIMATE DEPTH OF WELL	75 FEET 28	BOX & LOCATE WELL WITH AN X		-
	U NEAREST	SOURCES OF DRILLIN	Sice	
APPROXIMATE DIAMETER OF WELL	inch inch	2.		
METHOD OF DRILLING BORED (or Augered) JETTED	(circle one) Jetted & DRIVEN	3. WRITE THE BOX NUM	BER .	
BORED (or Augered) 30 AIR-ROTary AIR-PERcussion 37	HOTARY (Hydraulic Rotary)	FROM THE MAP HERE		
CABLE REVerse-ROTary	DRive-POINT	= 1070		
other	-	107	000	
REPLACEMENT OR DEEPEL	VED WELLS	DRAW A SKETCH BEL	OW SHOWING LOCATION OF	WELL IN
(CIRCLE APPROPRIATE E	BOX)	I RELATION TO NEARBY	Y TOWNS AND ROADS AND G L TO NEAREST ROAD JUNCT	الالح
THIS WELL WILL NOT REPLACE AN	THAT WILL BE	N N	X PENT	
ABANDONED AND SEALED		1	The Charles	
AS A STANDBY		I		
D THIS WELL WILL DEEPEN AN EXIST PERMIT NUMBER OF WELL TO BE REPL	ACED OR DEEPENDED		1 1:49	·
(IF AVAILABLE) 41	52) 51'	
Not to be filled in by driller (OE	P USE ONLY)	7	l I	•
APPROP. PERMIT NUMBER	G A P GS		· ·	
FORCE WRITE INITIALS PERMIT No. C E	- 8 8 - 0 6 9 6 72 73 74 75 78 77 78 79			
SPECIAL CONDITIONS				

1901	SEQUENCE NO.	STATE OF MARTLAND	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
I OUT	(DENV USE CNLY)	WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY	COUNTY
(THIS NUMBER IS TO BE PI	UNCHED	PLEASE PRINT OR TYPE	NUMBER C4371
/CO USE ONLY		Depth of Well	PERMIT NO. FROM "PERMIT TO DRILL WELL
DATE Received	DATE WELL COMPLET	22 / 4/5 28	CE-88-0696
13	15 20	(TO NEAREST FOOT)	28 29 30 31 32 33 34 35 38 3
NER JONE		mervin	Bulletin (Tarris)
STREET OR RED_ 2	est name CAPENT		HALLES JOWN
BDIVISION Bree	OBANK F	SECTION SECOND NO. 10	LOT 3
WELL L Not required for	<u>_OG</u> driven wells	WELL HAS BEEN GROUTED	C 3
STATE THE KIND OF PENETRATED, THEIR	FORMATIONS	(Circle Appropriate Box) TYPE OF GROUTING MATERIAL	PUMPING TEST
THICKNESS AND IF	WATER BEARING	CEMENT CM BENTONITE CLAY BC	HOURS PUMPED (nearest hour)
DESCRIPTION (Use additional sheets if needed)	FEET Check if water bearing to the control of the c	45 46	PUMPING RATE (gal. per min.
additional sheets if fleeded/	0 64	GALLONS OF WATER	to nearest gal.) METHOD USED TO METASURE DIMPING PATE BUCKT
210 30/6	6" 3'	DEPTH OF GROUT SEAL (to nearest foot)	MEASURE PUMPING RATE WATER LEVEL (distance from land surface)
CIM SICI	3'60'	from 48 TOP 52 (enter 0 if from surface) ft.	BEFORE PUMPING 70 1
OPSOIL CIAY SILT GARL GRAVEL	3 60	(enter 0 if from surface) casing CASING RECORD	17 20
Red CIAY	1,00	types	WHEN PUMPING [7 7 0]
- 1 ray Clay	70	(appropriate) STEEL CONCRETE	TYPE OF PUMP USED (for test)
n is soul	120 135 4	code below PL OT	Apair P piston T turbine
med COAISE TAN-WHITE	135 145 2	PLASTIC OTHER	other
MED COABE		MAIN Nominal diameter Total depth CASING top (main) casing of main casing	Centrifugal R rotary O (describ below)
TAN-WAIT		TYPE (nearest inch) (nearest foot)	J jet S submersible
- 5 4		P 2 4 735	27 27
	1 1	60 61 63 64 66 70 E OTHER CASING (if used)	
		A diameter depth (feet)	PUMP INSTALLED
			DRILLER WILL INSTALL PUMP YES NO
			(CIRCLE) (YES or NO) IF DRILLER INSTALLS PUMP, THIS SECTION
		Ġ G C	MUST BE COMPLETED FOR ALL WELLS
		screen type SCREEN RECORD or open hole OFT DID	EXCEPT HOME USE TYPE OF PUMP INSTALLED
			PLACE (A,C,J,P,R,S,T.O) IN BOX - SEE ABOVE:
Γ		appropriate STEEL BRASS OF EN	CAPACITY: GALLONS PER MINUTE
		code below PLASTIC OTHER	(to nearest gallon)
			PUMP HORSE POWER 37 41
•			PUMP COLUMN LENGTH (nearest ft.)
		DEPTH (nearest ft.)	CASING HEIGHT (circle appropriate box
·		A 8 9 11 15 17 21	and enter casing height)
L		H 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	49 LAND SURFACE (nearest
		S 23 24 26 30 32 36	49 below foot)
A WELL WAS ARAN	PRIATE LETTER NOONED AND SEALED	R S 3 41 45 47 51	LOCATION OF WELL ON LOT
WHEN THIS WELL	WAS COMPLETED	N ##	A SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND/OR
E ELECTRIC LOG OB		OSC. CIT.	N LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES
TEST WELL CONV	ERTED TO PRODUCTIO	OF SCREEN 56 INCH)	(MEASUREMENTS TO WELL)
HEREBY CERTIFY THAT THIS W		on from 2 to 12/5	PAIRENTET PT KX
AND IN CONFORMANCE WITH	ALL CONDITIONS STATED IN	RE GRAVEL PACK LYOUNGER	15'
SENTED HEREIN IS ACCURATE ANY KNOWLEDGE.	AND COMPLETE TO THE BEST	FLOWING WELL INSERT	
DRILLERS IDENT. NO.	283	F IN BOX 68 68 OEP USE ONLY	1 530
Dal a 1	man	(NOT TO BE FILLED IN BY DRILLER)	
DRILLERS SIGNATURE	IDE ON ADDITION	T (E.R.O.S.) W Q	Huse
(MUST MATCH SIGNATU	IRE ON APPLICATION)	70 72	//
SITE SUPERVISOR (sign	of driller or journeyma	TELESCOPE LOG OTHER DATA	
- SUE SUPERVIOUR ISIUI		CACING Services INDICATOR	<u> </u>

		and the second s	
cl1 3000	SEQUENCE NO.	STATE OF MARYLAND	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
1 2 3 (THIS NUMBER IS TO BE	(DENV USE ONLY) PUNCHED	WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE	COUNTY NUMBER C4357
IN COLS. 3-6 ON ALL CAP		D 11 - 6 14/-11	PERMIT NO. FROM "PERMIT TO DRILL WEL
DATE Received	DATE WELL COMPLETED	Depth of Well 22 26 28	C E - 88 - 069 5
DEC X 5 1939	101082	(TO NEAREST FOOT)	28 29 30 31 32 33 34 35 36 3
OWNER TONE	s merui	δ	
STREET OR RFD 70	last name REGIS	SANK Rd. first name TOWN	racles town
SUBDIVISION CEE	GN BANKS I'M	SECTION	LOT
WELL Not required for	<u>LOG</u> or driven wells	WELL HAS BEEN GROUTED WELL HAS BEEN GROUTED	<u>C 3</u>
STATE THE KIND O	F FORMATIONS	(Circle Appropriate Box) TYPE OF GROUTING MATERIAL	PUMPING TEST
PENETRATED, THE THICKNESS AND IF	F WATER BEARING	CEMENT CM BENTONITE CLAY BC	HOURS PUMPED (nearest hour)
DESCRIPTION (Use additional sheets if needed	FEET Check if water	45 46	PUMPING RATE (gal. per min.
Too Soil	6 L	GALLONS OF WATER 150	to nearest gal.) METHOD USED TO
	ا 8 س	DEPTH OF GROUT SEAL (to nearest foot)	MEASURE PUMPING RATE DU TE TO WATER LEVEL (distance from land surface)
CIAY m: x		from 6 ft. to 5 6 ft.	BEFORE PUMPING
Red CLAY	8 50	(enter 0 if from surface)	17 20
10 1 01	U 50 75	types	WHEN PUMPING [1 4 0]
Porplecia		insert appropriate STEEL CONCRETE	TYPE OF PUMP USED (for test)
Rad + White	-75/120	code below PL OT	P piston T turbine
C1 #7		PLASTIC OTHER	27 27 27 other
GRAY CIMY	120 150	MAIN Nominal diameter Total depth CASING top (main) casing of main casing	centrifugal R rotary (describelow)
1	1 10.51	TYPE (nearest inch) (nearest foot)	.1 jet S submersible
Red + White	150 163	PL 4 165	jet S submersible
J 47		60 61 63 64 66 70	
· '	11 = 175 X	OTHER CASING (if used) A diameter depth (feet)	PUMP INSTALLED
med Fine	. 165 175 \$	inch from to	DRILLER WILL INSTALL PUMP YES NO
Sund		CA S	(CIRCLE) (YES or NO)
		N G	IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS
		screen type SCREEN RECORD	EXCEPT HOME USE TYPE OF PUMP INSTALLED
		or open hole ST BR HO	PLACE (A.C.J.P.R.S.T.O) IN BOX - SEE ABOVE:
		insert STEEL BRASS OPEN BRONZE HOLE	CAPACITY:
		code below PL OT	GALLONS PER MINUTE (to nearest gallon)
		PLASTIC OTHER	PUMP HORSE POWER
		C 2	PUMP COLUMN LENGTH
		DEPTH (nearest ft.)	(nearest ft.) CASING HEIGHT (circle appropriate box
		[10 C 165 1 175 2	and enter casing height)
·			LAND SURFACE (nearest
		s 2 3 24 26 30 32 36	below J (Feat St. foot)
CIRCLE APPR	OPRIATE LETTER		LOCATION OF WELL ON LOT
A A WELL WAS ABA	ANDONED AND SEALED L WAS COMPLETED	E 3 41 45 47 51	A SHOW PERMANENT STRUCTURE SUCH AS
E ELECTRIC LOG O		SLOT SIZE 1. 20 2 3	BUILDING, SEPTIC TANKS, AND/OH N LANDMARKS AND INDICATE NOT LESS
TOTAL COM	VERTED TO PRODUCTION	DIAMETER (NEAREST INCH)	THAN TWO DISTANCES (MEASUREMENTS TO WELL)
(P) WELL	WELL HAS BEEN CONSTRUCTED IN	from to to	1 ¹
ACCORDANCE WITH COMAR	26.04.04 "WELL CONSTRUCTION	GRAVEL PACK 165 175	a
ABOVE CAPTIONED PERMIT, A SENTED HEREIN IS ACCURATE	AND THAT THE INFORMATION PRE- E AND COMPLETE TO THE BEST OF		House
MY KNOWLEDGE.	702	F IN BOX 68 68	17
DRIVERS IDENT. NO	(5 ()	OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER)	
Mosel SI	usur	T (E.R.O.S.) W Q	3
DRILLERS SIGNATURE (MUST MATCH SIGNAT	URE ON APPLICATION)	74 75 78	750 2
& Chun		70 72 OTHER DATA	3
SITE SUPERVISOR (sig	gn. of driller or journeyman	TELESCOPE LOG OTHER DATA CASING INDICATOR	

140.8/9/89#62256-MEK	EMERGENCY/TEMP NO. IF ANY				
O O O O SEQUENCE NO.	STATE OF M		STAT	E PERMIT NUMBE	:R .
OP USE ONLY)	APPLICATION FOR PE		CE-	<u>- 8 8 - 0 6</u>	
THIS NUMBER IS TO BE PUNCHED IN COLS. 3-8 ON ALL CARDS)	•	nt or type	<u> </u>	this form compl	letely "
Date Received (APA)	-	$\frac{B 3 }{1-2}$	LOCATION (OF WELL	C4357
080789 OWNER INFORM	ATION	C e c 1/			
Tope Meruin	First Name 34	8 COUNTY	WH E	RMS	TTTT
738 Lech Ru	First Name 34	23 SUBDIVISION	7	771/ARE	EU BANK
36 Street or RFD	55	SECTION 44 48	LOT 46 50		
TO M Town	7 4 1 7 2 7 0 State 72 Zip 78	charles	70 WM		71
DRILLER INFORMATION		52 NEAREST TOWN MILES FROM TOWN (ente	er O if in town)	MI	<u>]</u>
Poller's Name	77 License No. 80	B 4	7	76 77 78	
35. Souterd & Jon	11 4 19702	DIRECTION OF WELL FROM		UTOPPT NEAR WHAT ROAD	Rd, 30
25260 H COUNTY Rd.	lework De,	TOWN (CIRCLE BOX)		× .	<u> ионт</u> н
Active Dine	8/4/89	NW B NE		I SIDE OF ROAD PPROPRIATE BOX)	M M M
Signature	Date 2		(CIACLE A	-PROPRIATE BOX)	WEST STEAST
WELL INFORMATION APPROX. PUMPING RATE (GAL. PER MIN.)	<u>, </u>	TOWN E		· (2)	
	3 12	IS IS		DISTANCE FROM ROA	
AVERAGE DAILY QUANTITY NEEDED (GAL PER DAY)		Sw S 8-9		ENTER FT or	м <i>FT</i>
USE FOR WATER (CIRCLE APPE	OPRIATE BOX)	8	NOT TO BE FILL	ED IN BY DRILLE	R
HOME (SINGLE OR DOUBLE HOUSEH	OLD UNIT ONLY)	* Canail	HEALTH DEPAR	TMENT APPROVA	\L
FARMING (LIVESTOCK WATERING & A	GRICULTURAL	LCecil COUNTY NAME		ÇOUN	ITY NO.
INDUSTRIAL COMMERCIAL STATE AN	D FEDERAL GOV.	STATE SIGNATURE		INSERT	rs \square
OTHER (REQUIRES APPROPRIATION F PUBLIC OR PRIVATE WATER COMPAN	Y (REQUIRES	DATE ISSUED	11 0	57	41 2/10/
P APPROPRIATION PERMIT AND STATE APPROVAL)	HEALTH DEPARTMENT	0 8 1 0 8 9 43 48 9	CO SIGNATURE	70, Ju	EXP. DATE
T TEST, OBSERVATION, MONITORING (MAPPROPRIATION PERMIT)	IAY REQUIRE	NORTH 62 90 C		107800	63
EXTRACTION AND ADDRESS OF THE PROPERTY OF THE		SHOW MAJOR FEATUR	RES OF		$\overline{}$
APPROXIMATE DEPTH OF WELL	FEET 28	: WITH AN X			
	∠ NEAREST	sources of Drillin	Sice		
APPROXIMATE DIAMETER OF WELL	TINCH	2.),,,,,		•
METHOD OF DRILLING (BORED (or Augered) JETTED	circle one) Jetted & DRIVEN	3.	050		
BORED (or Augered) 30 AIR-ROTary AIR-PERcussion	ROTARY Hydraulic Rotary)	WRITE THE BOX NUM FROM THE MAP HERE			
CABLE REVerse-ROTary	DRive-POINT	1			•
other		E 107	2 000	•	•
REPLACEMENT OR DEEPEN	IED WELLS	N 670	000)	· · · · · · · · · · · · · · · · · · ·
(CIRCLE APPROPRIATE B		DRAW A SKETCH BEL	TOWNS AND RO	DADS AND GIVE	L IN
THIS WELL WILL NOT REPLACE AN	EXISTING WELL	DISTANCE FROM WELL	L TO NEAREST F	OAD JUNCTION	
THIS WELL WILL REPLACE A WELL ABANDONED AND SEALED	·	DISTANCE FROM WELL	÷.		٠, ٠
39 S THIS WELL WILL REPLACE A WELL AS A STANDBY	THAT WILL BE USED			JT1	28 3
D THIS WELL WILL DEEPEN AN EXIST	NG WELL	1	ر الراع	arperRo	<u>ار ل</u> ے
PERMIT NUMBER OF WELL TO BE REPLA			W/W C	pli	
(IF AVAILABLE) 41	52	4		arpento, Ro	
Not to be filled in by driller (OEI	P USE ONLY)		/	<u>`</u>	•
APPROP. PERMIT NUMBER	G A P 63	/-	ຂ	he	
FORCE WRITE INITIALS PERMIT No. C E -	- 8 8 - 0 6 9 5 2 73 74 75 78 77 78 79				•
SPECIAL CONDITIONS					

3987	SEQUEN (DENV US	NCE NO. SE ONLY)	STATE OF MARYLAND WELL COMPLETION REPORT	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
1 (12)23 (THIS NUMBER IS TO I	6 BE PUNCHED CARDS)		FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE	COUNTY C4014 NUMBER C4014
		LL COMPLETE	Depth of Well	PERMIT NO. FROM "PERMIT TO DRILL WELL
DATE Received	DATEWE	21180	22 / 4/) 26	d E - 88 - 0487
10G 2 9 1989	15	0 14-1017	(TO NEAREST FOOT)	28 29 30 31 32 33 34 35 38 3
OWNER ALB	ANES!		TIAN LL (first Perpe	ERRYVILLE
STREET OR RFD	333	MOUN		LOT 1
BDIVISION	FILL 1.00		SECTION SECTION	
Not require	ELL LOG ed for driven we		WELL HAS BEEN GROUTED (Circle Appropriate Box)	<u>C 3 </u>
STATE THE KIN PENETRATED, 1	D OF FORMAT	TONS DEPTH.	TYPE OF GROUTING MATERIAL	PUMPING TEST
THICKNESS AN	D IF WATER B	EARING	CEMENT CM BENTONITE CLAY BC	HOURS PUMPED (nearest hour)
DESCRIPTION (Use additional sheets if nee	ded) FROM	TO Check if water bearing	45 467	PUMPING RATE (gal. per min. 2) to nearest gal.)
		10 bearing	NO. OF BAGSNO. OF POUNDS _/ GALLONS OF WATER	METHOD USED TO
BROWN SAYS	#		DEPTH OF GROUT SEAL (to nearest foot)	MEASURE PUMPING RATE
BROWNSAYS	P 1	20	from ft. to 3 of ft.	WATER LEVEL (distance from land surface)
	1 1	, ,	48 TOP 52 54 BOTTOM 58 (enter 0 if from surface)	BEFORE PUMPING 9 Q
PAOWNCLA PHITFCLX ARAY CLA WHITE SA	120	42	casing CASING RECORD types	WHEN PUMPING
17 ROWN CLA	1/1/1/1	69	insert STEEL CONCRETE	22 25 TYPE OF PUMP USED (for test)
THIT FOLK	1) To	110	appropriate code PL OT	A sir P piston T turbine
THIP LA	y 69	118	below PLASTIC OTHER	27
ARAY L-	100	40	MAIN Nominal diameter Total depth	C centrifugal R rotary Other (describe
1 + 5.5A	Nd 100		CASING top (main) casing of main casing TYPE (nearest inch) (nearest foot)	27 27 below)
WHUE	′	ļ		jet Submersible
			60 81 63 64 66 70	21 21
			E OTHER CASING (if used) A diameter depth (feet)	DUMP INSTALLED
! ·			inch from to	PUMP INSTALLED
			C A C C C C C C C C C C C C C C C C C C	DRILLER WILL INSTALL PUMP YES (NO (CIRCLE) (YES OF NO)
				IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS
			screen type SCREEN RECORD	EXCEPT HOME USE
			or open hote ST BR HO	TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O)
	.	l	Insert \ STEEL BRASS OPEN	IN BOX-SEE ABOVE:
			(appropriate BRONZE HOLE COde DIT	CAPACITY: GALLONS PER MINUTE
			PL OT PLASTIC OTHER	(to nearest gallon)
		•	C	PUMP HORSE POWER
			1 2	PUMP COLUMN LENGTH (nearest ft.)
			DEPTH (nearest ft.)	EASING HEIGHT (circle appropriate box
<u> </u>	'		ê 3 9 111 15 17 40 11	and enter casing height)
				LAND SURFACE (nearest
0:50:5	PPROPRIATE L	ETTER	C 23 24 26 30 32 36	below below foot)
A A WELL WAS A	BANDONED A	ND SEALED	R 3 38 39 41 45 47 51	LOCATION OF WELL ON LOT
WHEN THIS W		PLETED	SLOT SIZE 1 0 2 0 3	SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND/OR
E ELECTRIC LOG OBTAINED TEST WELL CONVERTED TO PRODUCTION			DIAMETER (*) (NEAREST	LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES
WELL			OF SCREEN (56) INCH)	(MEASUREMENTS TO WELL)
HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN COORDANCE WITH COMAR 10.17.13 "WELL CONSTRUCTION"				- Constant
ANO IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE			N IF WELL DRILLED WAS	1 137
ABOVE CAPITORES IS ACCURATE AND COMPLETE TO THE BEST F MY KNOWLEDGE.			FLOWING WELL INSERT	1 / 6"
DRILLERS IDENT NO. 2			F IN BOX 68 68	Na di
DHILYERS IDENTIA		11 0 001	OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER)	70
MILLERS SIGNATU	HE STAN	1016	T (E.R.O.S.) WQ	1
MUST MATCH SIGN	IATURE ON AP	PLICATION)	74 75 76	
Γ		·	TELESCOPE TO S	
TOTE OUDERVISOR	nion: of driller	de journeyman	- CLEDOURE - WAS TO THE TOTAL OF THE PARTY O	

		HAT DELIGITATION OF AND			•	
24	\$46.9/27/89#62398-ME	MERGENCY/TEMP NO. IF ANY	AA DVI. AND		STATE PERMIT NUMB	ER ·
В	1 8364 SEQUENCE NO. (DP USE ONLY)	STATE OF N APPLICATION FOR PEI		ति	E-88-0	8 1 5
1	THIS NUMBER IS TO BE PUNCHED	please prir			fill in this form com	<u> </u>
	IN COLS. 3-6 ON ALL CARDS)		83	L OCATIO	ON OF WELL	
	Date Received (APA) 0 9 2 7 8 9 OWNER INFORM	ATION :	1 2	1 1 1		. 1
	6 13 CWALL IN STATE		8 COUNTY			4836
	Bender Constr	First Name 34	GREENBA	NK		
	15 Last Name When Owner	LANE	23 SUBDIVISION	[]	$\neg \neg$	42
	36 Street or RFD	55 13 14 6 3 4	SECTION 44 46	LOT 48	50	f
	8/R+0M 57 Town 7	0 State 72 Zip 76	ChARIES 52 NEAREST TOWN	100	JADI	71
	- DRILLER INFORMATION	ON 4/16	MILES FROM TOWN (ente	er 0 if in towr) 2 M 73 76 77	1 <u> </u> 78
	Driller's Name	77 License No. 80	B 4		LARK Rd.	
	DelMARUA DRIlling		DIRECTION OF WELL FROM	11	NEAR WHAT ROAD	30
	DO Box 188 Bridge	11/2 De 19933	TOWN (CIRCLE BOX)			NORTH
	Laure Produce	9/22/89 Date	NE SES	ON V (CIRC	VHICH SIDE OF ROAD CLE APPROPRIATE BOX)	
B	/Signature WELL INFORMATIO		(TOWN) E			SOUTH.
1	· APPROX. PUMPING RATE (GAL PER MIN.)	7011			34 2 1	37
	AVERAGE DAILY QUANTITY NEEDED	8 12			DISTANCE FROM RO	
	(GAL PER DAY)	20	S 8-9		ENTER FT	38 39
	USE FOR WATER (CIRCLE APPE			NOT TO BE	FILLED IN BY DRILL PARTMENT APPROV	.ER VAL
	D YOME (SINGLE OR DOUBLE HOUSEH	OLD UNIT ONLY)	Cecil			
	FARMING (LIVESTOCK WATERING & A	·	COUNTY NAME		COU	INTY NO.
	INDUSTRIAL, COMMERCIAL, STATE AN	ID FEDERAL GOV. PERMIT)	STATE SIGNATURE	<u> </u>	INSEF	RTS 41 T
1	DUBLIC OF PRIVATE WATER COMPAN	Y (REQUIRES	DATE ISSUED	(10.	E. Sumar	3/28/9
1	P APPROPRIATION PERMIT AND STATE APPROVAL)		43 48	CO SIGNATURE		EXP. DATE
	TEST, OBSERVATION, MONITORING (NAPPROPRIATION PERMIT)	MAY REQUIRE	NORTH 6 3 0 0 0	55 G	AST / 0 7 9 0 57	63
\vdash			SHOW MAJOR FEATUR			
	APPROXIMATE DEPTH OF WELL	26 FEET	WITH AN X		mo 40	
\vdash		III NEAREST	SOURCES OF DRILLIN	IG WAIEH	1	GRA
	APPROXIMATE DIAMETER OF WELL	7 INCH	2.		MD7 3	\ . P175\
十	METHOD OF DRILLING		3.		1	1
	BORED (or Augered) JETTED 30 - D. D. D. D. D. D. D. D. D. D. D. D. D.	ROTARY (Hydraulic Rotary)	WRITE THE BOX NUM	IBER E	P.E	
	37 AIR-ROTary AIR-Education	DRive-POINT				\ We
	<u>CABLE</u> <u>REV</u> erse-HOIary		E 1020	2	CARPENTELS Point Rd	
1	other :		N 630)	OOO CLARK Rd	<u> </u>
Γ	REPLACEMENT OR DEEPEN (CIRCLE APPROPRIATE E		DRAW A SKETCH BEL	OW SHOWI	NG LOCATION OF WE	LL IN
	THIS WELL WILL NOT REPLACE AN		RELATION TO NEARBY DISTANCE FROM WEL	L TO NEARE	ST ROAD JUNCTION	, } }
ļ	THIS WELL WILL REPLACE A WELL	THAT WILL BE	N			
	ABANDONED AND SEALED THIS WELL WILL REPLACE A WELL	THAT WILL BE USED				
	LLI AS A SIANDOI			- 1	62' X	
1	D THIS WELL WILL DEEPEN AN EXIST PERMIT NUMBER OF WELL TO BE REPL	ACED OR DEEPENDED		E		36'
	(IF AVAILABLE) 41	52	1 1	4	•	
+	Not to be filled in by driller (OE	P USE ONLY)	 	1		14
	 	GAP				18
	APPROP. PERMIT NUMBER 54	63	نبد.			
	FORCE WRITE INITIALS PERMIT No. CE-	8 8 - 0 8 1 5 72 73 74 75 76 77 78 79	€#3'			
ŀ	67 68 70 71 7	2 10 14 10 10 11 10 15				

٠.

1921 SEQUENCE NO. (DENV USE ONLY)	STATE OF MARYLAND WELL COMPLETION REPORT	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
1 2 3 THIS NUMBER IS TO BE PUNCHED	FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE	COUNTY NUMBER C4836
COLS. 3-6 ON ALL CARDS) CO USE ONLY DATE Received DATE WELL COMPLETED 15 DATE WELL COMPLETED 15		PERMIT NO. FROM "PERMIT TO DRILL WELL C E - 8 8 - 0 8 1 5 26 29 30 31 32 33 34 35 38 3.
NER Bender Constru	ction	
TREET OR RFD last name #50	Montrose Listiname TOWN _	LOT
BDIVISION Green bank WELL LOG	GROUTING RECORD yes no	C 3
Not required for driven wells STATE THE KIND OF FORMATIONS	WELL HAS BEEN GROUTED (Circle Appropriate Box)	1 2 PUMPING TEST
PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING	TYPE OF GROUTING MATERIAL CEMENT CM BENTONITE CLAY BC	HOURS PUMPED (nearest hour)
ESCRIPTION (Use FEET Check if water diditional sheets if needed) FROM TO bearing	45 46	PUMPING RATE (gal. per min. 20
Depil 0/	GALLONS OF WATER	to nearest gal.) METHOD USED TO
white clay 1 19	DEPTH OF GROUT SEAL (to nearest foot) from (7) ft. to (7) (7) ft.	MEASURE PUMPING RATE L
d white sand 19 43	48 TOP 52 54 BOTTOM 58 (enter 0 if from surface)	BEFORE PUMPING 53
43 57	casing types types ST CO	WHEN PUMPING
1 4 white 57 64	(appropriate) STEEL CONCRETE	TYPE OF PUMP USED (for test)
lay	code below PLASTIC OTHER	P piston T turbine
hite sand 80 137	MAIN Nominal diameter Total depth CASING top (main) casing of main casing	C centrifugal R rotary O other (describe below)
hile 227	TYPE (nearest inch) (nearest foot)	jet S submersible
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	27
ay 137 155	E OTHER CASING (if used) A diameter depth (feet)	PUMP INSTALLED
med loanse 137 155 white Dank beathered 155 157	inch from to	DRILLER WILL INSTALL PUMP
155 157	\$	(CIRCLE) (YES or NO) IF DRILLER INSTALLS PUMP, THIS SECTION
Centre 1	S G	MUST BE COMPLETED FOR ALL WELLS EXCEPT HOME USE
	screen type or open hole ST BR HO	TYPE OF PUMP INSTALLED PLACE (A,C.J,P,R,S,T,O)
	insert STEEL BRASS OPEN	IN BOX - SEE ABOVE:
	code below PL OT	GALLONS PER MINUTE (to nearest gallon)
	PLASTIC OTHER	PUMP HORSE POWER
•	DEPTH (nearest ft.)	PUMP COLUMN LENGTH (nearest ft.)
	E P L 145 155	CASING HEIGHT (circle appropriate box and enter casing height)
	C 8 9 11 15 17 21	LAND SURFACE
	s ² 23 24 28 30 32 36	below learnest foot)
CIRCLE APPROPRIATE LETTER A A WELL WAS ABANDONED AND SEALED	R 3	LOCATION OF WELL ON LOT
WHEN THIS WELL WAS COMPLETED	SLOT SIZE 1 0 2 2 3 0	A SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND/OR
ELECTRIC LOG OBTAINED TEST WELL CONVERTED TO PRODUCTION	DIAMETER (NEAREST	N LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES
WELL FREDRY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN	OF SCREEN 56 1NCH) from b to	(MEASUREMENTS TO WELL)
CORDANCE WITH COMAR 28.04.04 "WELL CONSTRUCTION AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE AND IN CONTONED BERNAT AND THAT THE INFORMATION PRE-	GRAVEL PACK 130 /33	L ,
ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION THE SEST OF SENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF KNOWLEDGE.	LECANING ASETE MOCINI	111 162'
RILLERS, DENT. NO. 4/6	F IN BOX 68 68 0EP USE ONLY	
Lawson Gradstaw	(NOT TO BE FILLED IN BY DRILLER)	36' 1
RILLERS SIGNATURE MUST MATCH SIGNATURE ON APPLICATION)	74 75 78	
	TELESCOPE LOG OTHER DATA	The second of the second
SITE SUPERVISOR (sign, of driller or journeyman	THE COURT OF THE PROPERTY OF T	of the state of th

d #40.5/29/10#68266-M3F	EMERGENCY/TEMP NO. IF ANY			
B 1 3458 SEQUENCE NO. (DP USE ONLY)	STATE OF APPLICATION FOR PE	•		RMIT NUMBER
1 2 3 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)		int or type		8 - 1 2 4 1 form completely ⁷⁹
Date Received (APA) 215-3		B 3	LOCATION OF V	VELL
0 5 2 9 9 0 OWNER INFORM		CEC/L 8 COUNTY		Replacement
15 Last Name Owner	First Name 34	6 CECNEB	キャス	
129 WOODEN RED	55	23 SUBDIVISION SECTION	LOT	72
Perry 1719	70 State 72 Zip 78	EKAV VS T	υων 50	71
DRILLER INFORMATION TO SEW ARC	10N 1927	MILES FROM TOWN (ente	er 0 if in town) 3	M I 78 77 78
Driver's Name	77 License No. 80	B 4	[1, 122] . 11	el
158 Black hid ST. Rel Too	www. 19734/	DIRECTION OF WELL FROM TOWN (CIRCLE BOX)	11 NEAR	WHAT ROAD 30
Address Sunally Sunal Signature	5-21-90 Date	NW 8 NE 8-9	ON WHICH SIDE (CIRCLE APPRO	OF ROAD
B 2 WELL INFORMATION	ON	TOWN E	•	SOUTH
1 APPROX. PUMPING RATE (GAL PER MIN.)	7 Ø 12		34 2	
AVERAGE DAILY QUANTITY NEEDED (GAL PER DAY)	000 20		DISTAN	ENTER FT or MI 12 1 1 38 39
USE FOR WATER (CIRCLE APP			NOT TO BE FILLED IN	
HOME (SINGLE OR DOUBLE HOUSE) F FARMING (LIVESTOCK WATERING & A	HOLD UNIT ONLY) AGRICULTURAL	Ceci	1	
I INDUSTRIAL COMMERCIAL STATE A	ND FEDERAL GOV	COUNTY NAME STATE	•	COUNTY NO.
OTHER (REQUIRES APPROPRIATION PUBLIC OR PRIVATE WATER COMPAN	Y (REQUIRES	DATE ISSUED	71.0.2	S 11/3
P APPROPRIATION PERMIT AND STATE APPROVAL)		NORTH	O SIGNATURE EAST	() EXP. DATE
T TEST, OBSERVATION, MONITORING (I APPROPRIATION PERMIT)	MAY REQUIRE	GRID GOTTO	55 GRID 57	80000
APPROXIMATE DEPTH OF WELL 24	FEET 28	SHOW MAJOR FEATUR BOX & LOCATE WELL WITH AN X		·
APPROXIMATE DIAMETER OF WELL	NEAREST INCH	SOURCES OF DRILLIN 1. WELL AT OF PICE 2.	S WATER	
METHOD OF DRILLING		3.		
BORED (or Augered) JETTED 30 AIR-ROTary AIR-PERcussion	Jetted & <u>DRIVEN</u> FOTARY (Hydraulic Rotary)	WRITE THE BOX NUMI		•
CABLE REVerse-ROTary	DRive-POINT	F 1080		
other		N (20	000	
REPLACEMENT OR DEEPEI (CIRCLE APPROPRIATE E		DRAW A SKETCH BELC	OW SHOWING LOCATI	ON OF WELL IN
N THIS WELL WILL NOT REPLACE AN	EXISTING WELL	RELATION TO NEARBY DISTANCE FROM WELL	TO NEAREST ROAD	JUNCTION
THIS WELL WILL REPLACE A WELL ABANDONED AND SEALED	*. * *. *. *. *. *. *. *. *. *. *. *. *.	N POA	Peters P/	Pas.
39 S THIS WELL WILL REPLACE A WELL AS A STANDBY	•		Wood	
D THIS WELL WILL DEEPEN AN EXIST PERMIT NUMBER OF WELL TO BE REPL		•		
(IF AVAILABLE) 41	52	11.11		
Not to be filled in by driller (OE				1
APPROP. PERMIT NUMBER 54	G A P 63			¥ 3191
FORCE WRITE INITIALS PERMIT No. Q E -	- 8 8 - 1 2 4 1 72 73 74 75 78 77 78 79		12	29 and All RL
SPECIAL CONDITIONS			•	· .

7707	T	STATE OF MARYLAND	THIS REPORT MUST BE SUBMITTED WITHIN	
C //8/	SEQUENCE NO. (DENV USE ONLY)	WELL COMPLETION REPORT	45 DAYS AFTER WELL IS COMPLETED.	
(THIS NUMBER IS TO BE F IN COLS. 3-6 ON ALL CAR	PUNCHED IDS)	FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE	COUNTY NUMBER Replacement	
S CO USE ONLY D E Received	DATE WELL COMPLETE	D Depth of Well_	PERMIT NO. FROM "PERMIT TO DRILL WELL	
JUL 1 8 1990	070290	22 / Z C 26 (TO NEAREST FOOT)	C E - 8 8 - 1 2 4 1 28 29 30 31 32 33 34 35 36 3	
ONER Rabi	119	Tanes		
STREET OR RFD	last name	PA. first name TOWN C	LOT	
SUBDIVISION _C-R	EGN "SA~	SECTION		
WELL Not required fo	r driven wells	WELL HAS BEEN GROUTED	<u>C 3</u>	
STATE THE KIND OF PENETRATED, THEI	R COLOR, DEPTH,	(Circle Appropriate Box) TYPE OF GROUTING MATERIAL	HOURS PUMPED (nearest hour)	
THICKNESS AND IF	WATER BEARING	CEMENT CM BENTONITE CLAY BC	8 9	
DISCRIPTION (Use accitional sheets if needed)	FROM TO bearing	NO. OF BAGS 45 10 NO. OF POUNDS 25000	PUMPING RATE (gal. per min. 15 to nearest gal.)	
Too Soil	0 6'	GALLONS OF WATER	METHOD USED TO MEASURE PUMPING RATE Bucks	
	8'	from ft. to 40 ft.	WATER LEVEL (distance from land surface)	
Thate Store	46 8	48 TOP 52 54 BOTTOM 58 (enter 0 if from surface)	BEFORE PUMPING b C	
	0 30	casing CASING RECORD	WHEN PUMPING	
The mit	8 30	types insert STEEL CONCRETE	22 25	
	200	appropriate STEEL CONCRETE	TYPE OF PUMP USED (for test) P piston T turbine	
Ted CLAY	30 80	below PLASTIC OTHER	27 27 other	
Red white	80 100	MAIN Nominal diameter Total depth CASING top (main) casing of main casing	C centrifugal R rotary (describ below)	
Rea White		CASING top (main) casing of main casing TYPE (nearest inch) (nearest foot)		
- C1 A49	100 110	PL 4 /BOI	J jet S submersible	
White	100 110	60 61 63 64 66 70 E OTHER CASING (if used)		
1 CIAT		å diameter depth (feet)	PUMP INSTALLED	
sand	110 120 Y	c T	DRILLER WILL INSTALL PUMP YES NO	
a sand.		§ []	(CIRCLE) (YES or NO) IF DRILLER INSTALLS PUMP, THIS SECTION	
		N C	MUST BE COMPLETED FOR ALL WELLS EXCEPT HOME USE	
		screen type SCREEN RECORD or open hole	TYPE OF PUMP INSTALLED	
1		insert STEEL BRASS OPEN	PLACE (A,C,J,P,R,S,T,O) IN BOX - SEE ABOVE:	
雪		(appropriate) BRONZE HOLE	CAPACITY: GALLONS PER MINUTE	
		below P L O T PLASTIC OTHER	(to nearest gallon)	
		C 2	PUMP HORSE POWER 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
		DEPTH (nearest	(nearest ft.)	
		E PL 1/10 1/20	CASING HEIGHT (circle appropriate box	
		A 8 9 11 15 17 21	LAND SURFACE	
		s ² 36	below (nearest foot)	
CIRCLE APPRO	PRIATE LETTER		LOCATION OF WELL ON LOT	
A WELL WAS ABAN	NDONED AND SEALED WAS COMPLETED	E 3	A SHOW PERMANENT STRUCTURE SUCH AS	
ELECTRIC LOG OB	STAINED	SLOT SIZE 1 20 2 33	BUILDING, SEPTIC TANKS, AND/OR N LANDMARKS AND INDICATE NOT LESS	
	ERTED TO PRODUCTION	DIAMETER (NEAREST INCH)	THAN TWO DISTANCES (MEASUREMENTS TO WELL)	
LHEREBY CERTIFY THAT THIS W	VELL HAS BEEN CONSTRUCTED IN 26.04.04 "WELL CONSTRUCTION	from, 10 to 17 to	7	
D IN CONFORMANCE WITH	ALL CONDITIONS STATED IN THE	GRAVEL PACK	House/	
SENTED HEREIN IS ACCURATE MY KNOWLEDGE.	AND COMPLETE TO THE BEST O	FLOWING WELL INSERT FIN BOX 68	J 435	
RILLERS IDENT. NO.	427 n	OEP USE ONLY	735 ox well	
- molly	1 Smu	(NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q	251	
DRILLERS SIGNATURE	JRE ON APPLICATION)	74 75 76	1	
If Chat	<u></u>	70 72 ULL OTHER DATA	- Indel Road	
SITE SUPERVISOR (sign responsible for sitework	n. of driller or journeyman if different from permittee)	122200012	Woodpil Road	
그들 그 물 물을 보는 사람들이 되었다. 그런 그리고 살				

c ₁ 4876	SEQUENCE NO. (DENV USE ONLY)	STATE OF MARYLAND WELL COMPLETION REPORT	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
1 2 3 (THIS NUMBER IS TO BE PIN COLS. 3-6 ON ALL CARE	UNCHED	FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE	COUNTY NUMBER D5743
ST/CO USE ONLY	DATE WELL COMPLETE	Depth of Well	PERMIT NO. FROM "PERMIT TO DRILL WELL!
AUG X 3 1994	072594	22 1 2 7 26	GE-93-0380
8 13	15 20	(TO NEAREST FOOT)	28 29 30 31 32 33 34 35 38 37
OWNER BEDDO	last name 1/ Q 13	first name TOWN 7	Thom/son, PA. 1-8465
STREET OR RFD Rd	NONK	SECTION	LOT
SUBDIVISION		GROUTING RECORD yes no	C 3
Not required for STATE THE KIND OF		WELL HAS BEEN GROUTED (Circle Appropriate Box)	1 2
PENETRATED, THEIR THICKNESS AND IF	R COLOR, DEPTH,	TYPE OF GROUTING MATERIAL	PUMPING TEST HOURS PUMPED (nearest hour)
DESCRIPTION (Use	FEET Check	CEMENT CM BENTONITE CLAY BC	PUMPING RATE (gal. per mín. Z J
additional sheets if needed)	FROM TO bearing	NO. OF BAGS NO. OF POUNDS	to nearest gal.)
VIIA. SAND		GALLONS OF WATER	METHOD USED TO MEASURE PUMPING RATE
y. 110w SAND	0 32	from (1) ft. to 1/2/1 ft.	WATER LEVEL (distance from land surface)
CIAY		(enter 0 if from surface)	BEFORE PUMPING 37 20
Red-white Clay		casing CASING RECORD types	WHEN PUMPING
7/20 12 11/2	32 /22	insert STEL CONCRETE	22 25 PYRE OF PUMP USED (for test)
17		code below PL OT	P piston T turbine
CONASC WINTE SAND	122 127 2	PLASTIC OTHER	27 27 other
SANA	1/2	MAIN Nominal diameter Total depth CASING top (main) casing of main casing	C centrifugal R rotary (describe below)
		TYPE (nearest inch) (nearest foot)	J jet S submersible
		Ph 4 123	27 27
		60 81 63 64 66 70	
		diameter depth (feet) H inch from to	PUMP INSTALLED
		lc	DRILLER WILL INSTALL PUMP YES (NO)
		\$	(CIRCLE) (YES or NO) IF DRILLER INSTALLS PUMP, THIS SECTION
		G COST NOTON	MUST BE COMPLETED FOR ALL WELLS EXCEPT HOME USE
		screen type or open hole STBRHO	TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O)
		Insert STEEL BRASS OPEN	IN BOX - SEE ABOVE:
		code below BRONZE HOLE P L O T	CAPACITY: GALLONS PER MINUTE 31 35
		PLASTIC OTHER	(to nearest gallon) PUMP HORSE POWER
		C 2	PUMP COLUMN LENGTH 37 41
·		DEPTH (nearest ft.)	(nearest ft.) CASING HEIGHT (circle appropriate box
		E 1/ / 2/3 / 1/2 / 2/7 / 2/1	and enter casing height)
			LAND SURFACE (nearest
		S 23 24 26 30 32 36	below
CIRCLE APPROP	DONED AND SEALED	E 38 39 41 45 47 51	LOCATION OF WELL ON LOT
WHEN THIS WELL V		SLOT SIZE 1 26 2 3	A SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND/OR
E ELECTRIC LOG OBTA	RTED TO PRODUCTION	DIAMETER ZZ (NEAREST	LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES
P WELL		OF SCREEN 7 INCH)	(MEASUREMENTS TO WELL)
THEREBY CERTIFY THAT THIS WE ACCORDANCE WITH COMAR 26 AND IN CONFORMANCE WITH ALL	1.04.04 "WELL CONSTRUCTION" LL CONDITIONS STATED IN THE		
ABOVE CAPTIONED PERMIT, AND SENTED HEREIN IS ACCURATE AN	N THAT THE INFORMATION PHE-	IF WELL DRILLED WAS	X
MY KNOWLEDGE.	25	FLOWING WELL INSERT FIN BOX 68 68	90-
PRILLERS IDENT. NO. L	7	OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER)	
DRILLERS SIGNATURE	keun m	T (E.R.O.S.) W Q	
(MUST MATCH SIGNATUR	E ON APPLICATION)	74 75 78	House
flerent b	(Cracy	TELESCOPE LOG OTHER DATA	
responsible for stework if	of driller or journeyman different from permittee)	CASING INDICATOR	

1 8 80 , 4 /1 /94 4 92979-MTR EMERGENCY/TEMP NO. IF ANY	D5743
STATE O	F MARYLAND STATE PERMIT NUMBER
APPLICATION FOR	PERMIT TO DRILL WELL CE-93-0380
(THIS NUMBER IS TO BE PUNCHED please IN COLS. 3-6 ON ALL CARDS)	print or type 70 fill in this form completely 79
Date Received (APA)	B 3 LOCATION OF WELL
OWNER INFORMATION 8 13	CEC1/1 D5743
TBEddOE MICHAL	GRECMBANK 21
15 Last Name Owner First Name 34	23 SUBDIVISION 42
38 Street or RFD 55	SEÇTION 44 48 LOT 48 50
7/5 0 N 7 5 0 N 1 9 1 8 4 6 5 57 Town 70 State 72 Zip 78	ChARILSTOWN
DRILLER INFORMATION	52 NEAREST TOWN MILES FROM TOWN (enter 0 if in town) 71
Dillers Name 25	73 78 77 78
Share Willers Name 77 License No. 80	B 4 MoodA1/ 18d.
- CicilTon, Md. 21913	DIRECTION OF WELL FROM 11 NEAR WHAT ROAD 30 TOWN (CIRCLE BOX)
Add(635) 3/36/94	N N ON WHICH SIDE OF ROAD WEEL E
Signature Date	(CIRCLE APPROPRIATE BOX) WEST SEAST
B 2 WELL INFORMATION	W TOWN E
APPROX. PUMPING RATE (GAL. PER MIN.)	34/20 37
AVERAGE DAILY QUANTITY NEEDED / 0 0 0	DISTANCE FROM FOAD ENTER FT OF MI PT
USE FOR WATER (CIRCLE APPROPRIATE BOX)	8 38 39
D HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY)	NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
FARMING (LIVESTOCK WATERING & AGRICULTURAL	Cecil
I IRRIGATION) CIT INDUSTRIAL COMMERCIAL, STATE AND FEDERAL GOV.	COUNTY NAME COUNTY NO.
OTHER (REQUIRES APPROPRIATION PERMIT) PUBLIC OR PRIVATE WATER COMPANY (REQUIRES	SIGNATUREINSERT SINSERT S
P APPROPRIATION PERMIT AND STATE HEALTH DEPARTMENT	040594 CO SIGNATURE EXP. DATE
APPROVAL) TEST, OBSERVATION, MONITORING (MAY REQUIRE	43 48 CO SIGNATURE EXP. DATE NORTH 6 3 0 0 0 0 EAST / 0 8 0 0 0 0
APPROPRIATION PERMIT)	50 55 57 63
APPROXIMATE DEPTH OF WELL 24 28 FEET	SHOW MAJOR FEATURES OF BOX & LOCATE WELL
	WITH AN X SOURCES OF DRILLING WATER
APPROXIMATE DIAMETER OF WELL	1. Town - Cac. I Ton
METHOD OF DRILLING (circle one)	2 3
BORED (or Augered) JETTED Jetted & DRIVEN	WRITE THE BOX NUMBER
30 AIR-ROTary AIR-PERcussion ROTARY (Hydraulic Rotary) 37 CARLE REVerse-ROTary DRive-POINT	FROM THE MAP HERE
CABLE REVerse-ROTary DRive-POINT	E 1080 X
other	N 630 - 000 000
REPLACEMENT OR DEEPENED WELLS	DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN
(CIRCLE APPROPRIATE BOX) THIS WELL WILL NOT REPLACE AN EXISTING WELL	RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION
THIS WELL WILL REPLACE A WELL THAT WILL BE	
ABANDONED AND SEALED	47 Wood All Kora
AS A STANDBY	N 47 Woodall Road D5743
PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENDED	
(IF AVAILABLE) 41 52	
Not to be filled in by driller (OEP USE ONLY)	
APPROP. PERMIT NUMBER G A P	·
54 63	
FORCE NITIALS PERMIT No. 0 8 9 3 - 0 3 8 0	
SPECIAL CONDITIONS	

885. 1T19194#911.	ENCY/TEMP NO. IF ANY		Replace MENT
B 1 00503 SEQUENCE NO.	STATE OF	MARYLAND	STATE PERMIT NUMBER
1 (THIS NUMBER IS TO BE PUNCHED	APPLICATION FOR PE		(t t - 9 3 - 0 2 9 6) 70 fill in this form completely 79
IN COLS. 3-8 ON ALL CARDS)	please pr	int or type	
Date Received (APA) OVI 1 9 9 9 OWNER INFORM	ATION	B 3	LOCATION OF WELL Standby R95
8 13 17 17 17 17 17 17 17 17 17 17 17 17 17	10 12 2 6 1 1	B COUNTY	21
15 Last Name Owner	First Name 34	23 SUBDIVISION	42
M c /// / / / / / / / / / / / / / / / /	R d 55	SECTION SECTION	LOT
MORTHERS T	M d	44 48 M 0 /1 T/A E/r 52 NEAREST TOWN	[S] 50 [S] 7 71
DEN 17/d S. NEWN INFORMATION	DN ZJ	MILES FROM TOWN (enter	r 0 if in town) 73 78 77 78
Dribers Name Short HILL DRILLERS	77 License No. 80	B 4	McK. NIVLY TOWN Rd.
Fire yame L. L. C. I. Torr, 17d 219	913	DIRECTION OF WELL FROM TOWN (CIRCLE BOX)	11 NEAR WHAT ROAD 30 NORTH
Address on all S. Thewn an	1/19/94	N S NE	ON WHICH SIDE OF ROAD
Signature B 2 WELL INFORMATION	Date /	8-9	(CIRCLE APPROPRIATE BOX) WESTERST
2 APPROX. PUMPING RATE (GAL. PER MIN.)	10111	TOWN)—E	
AVERAGE DARY OHANTITY NEEDED	12		34 3 6 37 DISTANCE FROM ROAD
(GAL PER DAY)	20		ENTER FT or MI $\left[\begin{array}{c} P \\ \hline 38 \end{array}\right]$ 39
USE FOR WATER (CIRCLE APPRI			NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
OME (SINGLE OR DOUBLE HOUSEHOUSE) FARMING (LIVESTOCK WATERING & ACC	OLD UNIT ONLY) BRICULTURAL	Cecil	,
IRRIGATION) NDUSTRIAL, COMMERCIAL, STATE AND		COUNTY NAME	COUNTY NO.
21 LIDTHER (REQUIRES APPROPRIATION P	ERMIT)	STATE SIGNATURE DATE ISSUED	INSERT S
PUBLIC OR PRIVATE WATER COMPANY P APPROPRIATION PERMIT AND STATE H	EALTH DEPARTMENT	012694	Signature 1/25/9
TEST, OBSERVATION, MONITORING (M. APPROPRIATION PERMIT)	AY REQUIRE	NORTH GRID SO	O EAST // 98000
APPROXIMATE DEPTH OF WELL 24	FEET	SHOW MAJOR FEATURE BOX & LOCATE WELL	ES OF
APPROXIMATE DEPTH OF WELL 24	28	WITH AN X SOURCES OF DRILLING	. WATER
APPROXIMATE DIAMETER OF WELL4	NEAREST INCH	1. TOWN - Caul	/T-~ X
METHOD OF DRILLING (c	ircle one)	2. 3.	·
BORED (or Augered) JETTED	Jetted & DRIVEN ROTARY (Hydraulic Rotary)	WRITE THE BOX NUMB	ER
30 AIR-ROTary AIR-PERcussion CABLE REVerse-ROTary	DRive-POINT	THOM THE MAINTENA	
other		E /096	 1
REPLACEMENT OR DEEPENE	D WELLS	N 620	000
(CIRCLE APPROPRIATE BO)X)	RELATION TO NEARBY	W SHOWING LOCATION OF WELL IN TOWNS AND ROADS AND GIVE
N THIS WELL WILL NOT REPLACE AN E	XISTING WELL HAT WILL BE		TO NEAREST ROAD JUNCTION
ABANDONED AND SEALED 39 THIS WELL WILL REPLACE A WELL T		N A	Fix Rd
AS A STANDBY	•	T	D. K. NINEY TOWN Rd
D THIS WELL WILL DEEPEN AN EXISTIN			Hoose
	5547 52		
Not to be filled in by driller (OEP	USE ONLY)	†	
APPROP. PERMIT NUMBER CE936	1 A P 0 3 9	> 1	191
FORCE ST 68 WRITE PERMIT No. R - 70 71 72	9 3 - 0 2 9 6	ν,	
SPECIAL CONDITIONS			ļ

			· · · · · · · · · · · · · · · · · · ·	
1 1055	SEQUENC		STATE OF MARYLAND	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
3.3	(DENV USE	ONLY)	WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY	COUNTY Standby P-059-99
(THIS NUMBER IS TO BE IN COLS. 3-6 ON ALL CAR	DS)		PLEASE PRINT OR TYPE	NUMBER Scalady R-930-69 PERMIT NO.
T/CO USE ONLY TE Received	DATE WELL	COMPLETE		FROM "PERMIT TO DRILL WELL
NAT 2 1 1CEL	031	694	22 2 4 / 26	<u> d E </u>
6 13	15 /-// /X	20	STATIEN (TO NEAREST FOOT)	28 29 30 31 32 33 34 35 36 3
WNER BLIZER	Jast page v	Town 1	first name TOWN	VORTHEAST, Md.
SUBDIVISION	111111		SECTION	LOT
WELL			GROUTING RECORD (yes) no	C 3
Not required for STATE THE KIND OF		3	WELL HAS BEEN GROUTED (Circle Appropriate Box)	1 2
PENETRATED, THE	R COLOR, DEF	PTH,	TYPE OF GROUTING MATERIAL	HOURS PUMPED (nearest hour)
THICKNESS AND IF	FEET	Check if water	CEMENT CM BENTONITE CLAY BC	8 9
additional sheets if needed)	FROM TO	bearing	NO. OF BAGS 70 NO. OF POUNDS 807	PUMPING RATE (gal. per min. 3 0 1 15 15 15
			GALLONS OF WATER ZOO DEPTH OF GROUT SEAL (to nearest foot)	METHOD USED TO MEASURE PUMPING RATE _ bock. T
Ellow-white	1 1 .	,	from O ft. to Z 3 0 ft.	WATER LEVEL (distance from land surface)
SAND- Clay	0 11		48 TOP 52 54 BOTTOM 58 (enter 0 if from surface)	BEFORE PUMPING
Dedicabition			casing <u>CASING RECORD</u>	WHEN PLIMPING Z 3 0
girny clay	1/ 1/	3	types insert ST CO	22 25
9,000			(appropriate) STEEL CONCRETE	TYPE OF PUMP USED (for test)
Th.Te. 9 RAY	1/3 /3	4	code P L OT PLASTIC OTHER	P piston T turbine
PIRY- SAND	ا درر	~	MAIN Nominal diameter Total depth	C centrifugal R rotary O other (describ
1h.To- gray Clay- SAND PEd. White-			CASING top (main) casing of main casing	27 centrifugal A rotary (describ
PRAY Clay Pine in hits sand	136 21	افر	TYPE (nearest inch) (nearest foot)	J jet S submersible
TO IT cand	213 22	. 6	(F) (A) (A) (B) (B) (B) (B) (B) (B) (B) (B) (B) (B	27 27
FINE IN DIE STEE				
onasi while	226 24	<i>1</i>	C OTHER CASING (if used) C diameter depth (feet) H inch from to	PUMP INSTALLED
SAND	226 25		c III	DRILLER WILL INSTALL PUMP (YES) NO
			\$	(CIRCLE) (YES or NO) IF DRILLER INSTALLS PUMP, THIS SECTION
			C C	MUST BE COMPLETED FOR ALL WELLS
			screen type SCREEN RECORD or open hole	EXCEPT HOME USE TYPE OF PUMP INSTALLED PLACE (A CLERRSTO)
			insert ST BR HO	PLACE (A,C,J,P,R,S,T,O) IN BOX - SEE ABOVE:
P			(appropriate) STEEL BRASS OPEN BRONZE HOLE	CAPACITY:
L			below PL OT	GALLONS PER MINUTE (to nearest gallon) (to nearest gallon)
			PLASTIC OTHER	PUMP HORSE POWER 37 41
T .				PUMP COLUMN LENGTH
<u>_</u>			DEPTH (nearest ft.)	CASING HEIGHT (circle appropriate box
			$\begin{bmatrix} \frac{1}{6} & \frac{1}{6} & \frac{1}{9} & \frac{1}{11} & \frac{1}{15} & \frac{1}{17} & \frac{21}{17} \end{bmatrix}$	and enter casing height)
T			أست أست أست أست أست أست أست أست أست أست	LAND SURFACE
±			S 23 24 26 30 32 36	below foot) (nearest foot)
CIRCLE APPROPRIATE LETTER A WELL WAS ABANDONED AND SEALED			S 23 24 26 30 32 36 E 3	. LOCATION OF WELL ON LOT
A A WELL WAS ABAN	WAS COMPLE	TED	E 38 39 41 45 47 51	A SHOW PERMANENT STRUCTURE SUCH AS
E ELECTRIC LOG OBTAINED			SLOT SIZE 1 2 2 3 3	BUILDING, SEPTIC TANKS, AND/OR N LANDMARKS AND INDICATE NOT LESS
TEST WELL CONVE	ERTED TO PRO	DOUCTION	DIAMETER (NEAREST INCH)	THAN TWO DISTANCES
P WELL THEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN			56 60	(MEASUREMENTS TO WELL)
NCCORDANCE WITH COMAR 20	8.04.04 "WELL CO N.L. CONDITIONS S	STATED IN THE	GRAVEL PACK 230 24/	
BOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PME- TSENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF			IF WELL DRILLED WAS	
MY KNOWLEDGE.			FLOWING WELL INSERT F IN BOX 68 66	100'
DRITTERS IDENT. NO. 2.5			OEP USE ONLY	+ 0
on all J.	Meur say		(NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q	1 4 2
DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)			(E.H.O.S.) W G	5 / 2
		•	70 72	
SITE SUPERVISOR (sign	of driller or jo	urneyman	TELESCOPE LOG OTHER DATA CASING INDICATOR	1
ible for ellerande i	mont trenement r	nermitteel		

•	•		
1386	SEQUENCE NO. (DENV USE ONLY)	STATE OF MARYLAND WELL COMPLETION REPORT	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
(THIS NUMBER IS TO BE FINECOLS, 3-6 ON ALL CAR	PUNCHED	FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE	COUNTY NUMBER Repl. R572
CO USE ONLY		Don't of Mall	PERMIT NO.
DE Received	DATE WELL COMPLETE		FROM "PERMIT TO DRILL WELL"
OUT S D 1995	922393	22	CEI-1913 1-1010 1914 28 29 30 31 32 33 34 35 38 37
50	SMAN	BUAN	
	tast parte Mount	first domo	Desay sixts.
SINEEL ON MID		SECTION	LOT
SUBDIVISION	106	COOLETING DECORD	C 3
Not required for	driven wells	WELL HAS BEEN GROUTED	
STATE THE KIND OF PENETRATED, THEIR	FORMATIONS	(Circle Appropriate Box) TYPE OF GROUTING MATERIAL	PUMPING TEST
THICKNESS AND IF	WATER BEARING	CEMENT CM BENTONITE CLAY	HOURS PUMPED (nearest hour)
D CRIPTION (Use	FEET Check	ا رس ⁴⁴ م و ⁴ 4 45 45 ا	PUMPING RATE (gal. per min.
additional sheets if needed)		NO. OF BAGS NO. QE POUNDS 150	to nearest gal.)
TOPSOIL 1	06	GALLONS OF WATER DEPTH OF GROUT SEAL (to nearest foot)	METHOD USED TO MEASURE PUMPING RATE BUCKET
1274 SAN	64 21	from O ft. to 30 ft.	WATER LEVEL (distance from land surface)
en Daraid	3' 18'	48 TOP 52 54 BOTTOM 58	BEFORE PUMPING
SMAGIONA	0 0	(enter 0 if from surface) casing CASING RECORD	BEFORE FUMPING
SANDIOUNI SANDIOUNI MULTICOLORCHA, PEA GIANEL	18 34		WHEN PUMPING 651
Pod araul	34 44	/ insert \ SI CO	TYPE OF PUMP USED (for test)
The proof	34 44 .	appropriate code PL OT	
m 10	4461	below PLASTIC OTHER	air P piston T turbine
med Cross	' ' '		O other
- Spel		MAIN Nominal diameter Total depth CASING top (main) casing of main casing	C centrifugal R rotary (describe below)
		TYPE (nearest inch) (nearest foot)	
#		PZ en ann	jet Submersible
_		60 61 63 84 66 70	
		E OTHER CASING (if used)	
		diameter depth (feet) H inch from to	PUMP INSTALLED
		[c	DRILLER WILL INSTALL PUMP ES NO
		\$	(CIRCLE) (YES or NO) IF DRILLER INSTALLS PUMP, THIS SECTION
		N G	MUST BE COMPLETED FOR ALL WELLS
		screen type SCREEN RECORD	EXCEPT HOME USE
		or open hole ST BR HO	TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O)
4		Insert \ STEEL BRASS OPEN	IN BOX - SEE ABOVE:
		appropriate BRONZE HOLE	CAPACITY: GALLONS PER MINUTE
		below PL OT	(to nearest gallon)
		PLASTIC OTHER	PUMP HORSE POWER 137 41
<u> </u>		C 2	PUMP COLUMN LENGTH
		DEPTH (nearest ft.)	(nearest ft.) CASING HEIGHT (circle appropriate box
		E 18 6 51	and enter casing height)
<u> </u> -		8 9 11 15 17 21	above LAND SURFACE
		! 4	halow (nearest
CIRCLE APPRO	PRIATE LETTER	C 23 24 26 30 32 36	49 50 51 foot)
A WELL WAS ABAN	IDONED AND SEALED		LOCATION OF WELL ON LOT
WHEN THIS WELL	WAS COMPLETED	N 20 20 41	A SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND/OR
ELECTRIC LOG OB		SLOT SIZE 1 2 02 3	N LANDMARKS AND INDICATE NOT LESS
	ERTED TO PRODUCTION	DIAMETER (NEAREST INCH)	THAN TWO DISTANCES
P WELL	ELL HAS BEEN CONSTRUCTED IN	OT COTTLETY 56 60	(MEASUREMENTS TO WELL)
CORDANCE WITH COMAR 20	6.04.04 "WELL CONSTRUCTION ALL CONDITIONS STATED IN THE	GRAVEL PACK 5/ 106/	1.
THE ME CARTONED OCOMIT AND	O THAT THE INFORMATION PRE- IND COMPLETE TO THE BEST OF	IF WELL DRILLED WAS	1 3/ 100
MY KNOWLEDGE.		FLOWING WELL INSERT F IN BOX 68 68 68 68	
RILLERS IDENT. NO. L	097	OEP USE ONLY	3 18 4
1	11.1	(NOT TO BE FILLED IN BY DRILLER)	1 07 00
DRILLERS SIGNATURE		T (E.R.O.S.) W O	7 -22
MUST MATCH SIGNATUL	RE ON APPLICATION)	74. 75. 76	
		TELESCOPE LOG OTHER DATA	
SITE SUPERVISOR (sign	of driller or journeyman	TELESCOPE LOG OTHER DATA CASING INDICATOR	, · · · · · · · · · · · · · · · · · · ·
I menonsible for siteWORK I	f different from permittee)		

d 8000 9/21/93# 88542 bf			STATE PERMIT NUMBER
s 1 00026 SEQUENCE NO. (DP USE ONLY)	STATE OF M APPLICATION FOR PE	RMIT TO DRILL WELL	QE-93-0094
(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)	please pri		70 fill in this form completely 79
	2306 ATION	B 3	LOCATION OF WELL Repl.R572
15 Last Name Owner Owner	First Name 34	23 SUBDIVISION	42
38 Street or RFD REMY U// P	55 55 5	SECTION 44 48	LOT 48 50
DRILLER INFORMATION		52 NEAREST TOWN MILES FROM TOWN (ente	er 0 if in town) 71 78 77 78
Driller's Name RT Seward Mad So.	77 License No. 80	B 4	MOUNTAIN HALL PL
Firm Name 158 BINEIC BIRD ST. PD 5 Address	<u> 1 9-20-73</u>	TOWN (CIRCLE BOX)	NORTH ON WHICH SIDE OF ROAD
Signature B 2 WELL INFORMATION	Date	NW 8 NE B-9 TOWN	(CIRCLE APPROPRIATE BOX) WEST SENTE
APPROX. PUMPING RATE (GAL. PER MIN.)	3 12		34 2 5 37 DISTANCE FROM ROAD
AVERAGE DAILY QUANTITY NEEDED (GAL PER DAY)	0 0 0 1 20 20	S _W S _E S _{B-9}	ENTER FT or MI 38 39 NOT TO BE FILLED IN BY DRILLER
USE FOR WATER (CIRCLE APPR	OLD UNIT ONLY)		HEALTH DEPARTMENT APPROVAL
FARMING (LIVESTOCK WATERING & AGE IRRIGATION) INDUSTRIAL, COMMERCIAL, STATE AN	D FEDERAL GOV.	Cecil COUNTY NAME STATE SIGNATURE	COUNTY NO. INSERT S
OTHER (REQUIRES APPROPRIATION F PUBLIC OR PRIVATE WATER COMPAN' P APPROPRIATION PERMIT AND STATE I	Y (REQUIRES	DATE ISSUED 0 9 2 1 9 3	2) SIGNATURE 9/20/
T TEST, OBSERVATION, MONITORING (MAPPROPRIATION PERMIT)	IAY REQUIRE	NORTH 6350	EAST 75000 55 GRID 57 68
APPROXIMATE DEPTH OF WELL 24	FEET .28	SHOW MAJOR FEATUR BOX & LOCATE WELL . WITH AN X SOURCES OF DRILLING	
APPROXIMATE DIAMETER OF WELL	NEAREST INCH	SOURCES OF DRILLING 1. Well A OF) 2.	ج <i>خ</i> د.
METHOD OF DRILLING (compared) BORED (or Augered) JETTED	Jetted & <u>DRIVEN</u>	3. WRITE THE BOX NUMBERS FROM THE MAP HERE	BER
30 AIR-ROTary AIR-PERcussion CABLE REVerse-ROTary	ROTARY (Hydraulic Hotary) <u>DRive-POINT</u>	E 1070	
otherREPLACEMENT OR DEEPEN	JED WELLS	N 630	OW SHOWING LOCATION OF WELL IN
(CIRCLE APPROPRIATE B	OX) EXISTING WELL	DELIATION TO NEARBY	TOWNS AND ROADS AND GIVE TO NEAREST ROAD JUNCTION
THIS WELL WILL REPLACE A WELL ABANDONED AND SEALED THIS WELL WILL REPLACE A WELL		N A	RT 40 EIAST
AS A STANDBY THIS WELL WILL DEEPEN AN EXISTI	NG WELL	RI	7
PERMIT NUMBER OF WELL TO BE REPLA	52		1
Not to be filled in by driller (OEF	G A P S	2019/2 	AMTIACK RR.
FORCE WRITE INSTALS PERMIT No. C E - 70 71 72	93-0094	HILL	
SPECIAL CONDITIONS		\$ 5	
	ORI	GINAL	

•	<u> </u>		
	X: _NCE NO.	STATE OF MARYLAND	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
(THIS NUMBER IS TO BE PUNCHE	V USE ONLY)	WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE	COUNTY NUMBER D5835
IN COLS. 3-6 ON ALL CARDS)			PERMIT NO.
TE Received DATE V	VELL COMPLETED		FROM "PERMIT TO DRILL WELL
QCT 2 3 1993 . //	0/151913	22 1 8 5 26	[1] F - 1 9 3 - 1 0 0 4 1 26 29 30 31 32 33 34 35 36 3,
8 13 15	20	(TO NEAREST FOOT)	20 20 30 11 32 33 34 33 33
WNER	UNTUR	first name TOWN	-V. Elas
STREET OR RFDlast nar	1 2 2 2		NOITH EHST
SUBDIVISION	BANK	SECTION	LOT /
WELL LOG	-11-	GROUTING RECORD yes no	C 3
Not required for driven state THE KIND OF FORM		WELL HAS BEEN GROUTED (Circle Appropriate Box)	1 2
PENETRATED, THEIR, COLO	r, depth,	TYPE OF GROUTING MATERIAL 44	PUMPING TEST
THICKNESS AND IF WATER	BEARING	CEMENT CM BENTONITE CLAY	HOURS PUMPED (nearest hour)
SCRIPTION (Use Figure 1) FROM	ET Check if water bearing	45 46	PUMPING RATE (gal. per min. //5
TRASOIL 6	6	NO. OF BAGS NO. OF POUNDS 200 GALLONS OF WATER 100 OF POUNDS 200 OF POUN	to nearest gal.)
1895012	1 _ /	DEPTH OF GROUT SEAL (to nearest foot)	METHOD USED TO MEASURE PUMPING RATE Buker
The I arrived to	20	from ft. to 5 d ft.	WATER LEVEL (distance from land surface)
20	19	49 TOP 52 54 BOTTOM 58	BEFORE PUMPING
SAND CHAY MIS	i i i	(enter 0 if from surface) Casing CASING RECORD	17 20
Fine Stand 39	70	(hans)	WHEN PUMPING 260
TIME OF THE	80	rypes insert STEL CONCRETE	TYPE OF PUMP USED (for test)
P-Delas 40		appropriate	
80	110	below PLASTIC OTHER	air P piston T turbine
TYAY CHAY	140	N ₂	other other
p- Que sand		MAIN Nominal diameter Total depth CASING top (main) casing of main casing	C centrifugal R rotary O (describe below)
11/10/19	160	TYPE (nearest inch) (nearest foot)	
SILTG SARL	1 1,2		jet Submersible
Fire grays and 140 Bilty Stal 140 Mal CORIST 160 WHITESTAN	MS	60 61 63 64 66 70	21 21
Mal Edde		E OTHER CASING (if used)	
CUHITESAN		A diameter depth (feet) H inch from to	PUMP INSTALLED
		inch from to	DRILLER WILL INSTALL PUMP YES
		Š L	(CIRCLE) (YES or NO)
		Ĭ	IF DRILLER INSTALLS PUMP, THIS SECTION
		G	MUST BE COMPLETED FOR ALL WELLS EXCEPT HOME USE
		screen type SCREEN RECORD or open hole	TYPE OF PUMP INSTALLED
	1		PLACE (A,C,J,P,R,S,T,O) IN BOX - SEE ABOVE:
		appropriate STEEL BRASS OPEN BRONZE HOLE	CAPACITY:
		code pelow PL OT	GALLONS PER MINUTE
		PLASTIC OTHER	(to nearest gallon) PUMP HORSE POWER
		C 2	37 41
Γ ·		1 2	PUMP COLUMN LENGTH (nearest ft.)
L .		DEPTH (nearest ft.)	CASING HEIGHT (circle appropriate box
i		E 1 P C 1 75 15 185 21	and enter casing height)
T 1			49 LAND SURFACE
L		s ² 23 24 26 30 32 36	below (nearest foot)
CIRCLE APPROPRIATE	LETTER	S 23 24 26 30 32 36 R S 3	49 . 50 51
A WELL WAS ABANDONED	AND SEALED	E 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LOCATION OF WELL ON LOT
A WHEN THIS WELL WAS CO	MPLEIED	•	A SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND/OR
E ELECTRIC LOG OBTAINED		SLOT SIZE 1_243	N LANDMARKS AND INDICATE NOT LESS
TEST WELL CONVERTED	TO PRODUCTION	DIAMETER (NEAREST INCH)	THAN TWO DISTANCES (MEASUREMENTS TO WELL)
THEREBY CERTIFY THAT THIS WELL HAS B	EEN CONSTRUCTEO IN	56 60	1 (IVIEAGO) TEIVIETTO TO TREELY
CCOROANCE WITH COMAR 26.04.04 "V	VELL CONSTRUCTION	GRAVEL PACK 75 to 185	, .
BOVE CAPTIONEO PERMIT, AND THAT TO SENTED HEREIN IS ACCURATE AND COMP	HE INFORMATION PHE-	IF WELL DRILLED WAS	House
MY KNOWLEDGE.		FLOWING WELL INSERT	1 1 1
DRILLERS IDENT. NO.	97	F IN BOX 68 68	1 1 /
UNILLERS IDENT. NO.	1	OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER)	
DOUGH TO SIGNATURE	frank :	T (E.R.O.S.) W Q	٠.
DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON A		74 75 76	WZ5'
		70 72	73.5
SITE SUPERVISOR (sign, of drilk	er or journeyman	TELESCOPE LOG OTHER DATA	W SI
responsible for sitework if differen	nt from permittee)	CASING INDICATOR	

4 4 80, 8/16/93 487925-175EMERGENCY/TEMP NO. IF A	NY	
STATE	OF MARYLAND	STATE PERMIT NUMBER
(THIS NUMBER IS TO BE PUNCHED APPLICATION FO	OR PERMIT TO DRILL WELL ase print or type	☐ E - 9 3 - 0 0 4 1 70 fill in this form completely 79
IN COLS. 3-6 ON ALL CARDS) Date Received (APA)	B 3	LOCATION OF WELL
Date Received (APA) O 8 / 6 9 3 OWNER INFORMATION	12 12 11	TOCATION OF WELL D5835
WOODE TO AU DO JANET	8 COUNTY	
15 Last Name . Owner First Name . 3	23 SUBDIVISION	
GO O O H E Street or RFD S	SECTION 44 46	LOT 48 50
57 Town 70 State 72 Zip 7	78 S2 NEAREST TOWN	TOWN 1
DRILLER INFORMATION Seven 097	MILES FROM TOWN (ente	er 0 if in town) 73 76 77 78
Drijler's Name 77 License No	o 80 B 4	plack Rd
Firm Name	DIRECTION OF WELL FROM TOWN (CIRCLE BOX)	11 NEAR WHAT ROAD 30
Address - 1 1 7 1/2/22		ON WHICH SIDE OF ROAD
Signature Sate	8 NE 8-9 8-9	(CIRCLE APPROPRIATE BOX) (W/ 32 E) WEST S EAST
B 2 WELL INFORMATION	W(TOWN)E	SÕŪH _,
APPROX. PUMPING RATE (GAL PER MIN.)		34 5 0 37 DISTANCE FROM ROAD
AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY)	S S S S S S S S S S S S S S S S S S S	ENTER FT or MI PT 38 39
USE FOR WATER (CIRCLE APPROPRIATE BOX)		NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY) FI FARMING (LIVESTOCK WATERING & AGRICULTURAL	Cecil	
L IRRIGATION)	COUNTY NAME	COUNTY NO.
INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOV. OTHER (REQUIRES APPROPRIATION PERMIT)	STATE SIGNATURE DATE ISSUED	INSERT S 41
PUBLIC OR PRIVATE WATER COMPANY (REQUIRES P APPROPRIATION PERMIT AND STATE HEALTH DEPARTMENT	1 081893	co signature 8/17/94
APPROVAL) TEST, OBSERVATION, MONITORING (MAY REQUIRE APPROPRIATION PERMIT)	43 48 NORTH 6 3 0 0 GRID 50	EAST US A A A A
	SHOW MAJOR FEATUR	RES OF
APPROXIMATE DEPTH OF WELL 8 0 FEET	WITH AN X	G WATER
APPROXIMATE DIAMETER OF WELL	REST 1. Well AT OF	0F124
METHOD OF DRILLING (circle one)	2. 3.	
BORED (or Augered) JETTED Jetted & DR	White the box itom	
30 AIR-ROTary AIR-PERcussion CTARY Hydraulic Ro 37 CABLE REVerse-ROTary DRive-PI	1	
CABLE	E 1070	
REPLACEMENT OR DEEPENED WELLS	N 63c	
(CIRCLE APPROPRIATE BOX)	DELATION TO NEARBY	OW SHOWING LOCATION OF WELL IN TOWNS AND ROADS AND GIVE
THIS WELL WILL NOT REPLACE AN EXISTING WELL	DISTANCE FROM WEL	L TO NEAREST ROAD JUNCTION RO
THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
39 S THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY		%
D THIS WELL WILL DEEPEN AN EXISTING WELL		1
PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENDED (IF AVAILABLE) 41 5	52 5	Z.
Not to be filled in by driller (OEP USE ONLY)	- B	8
APPROP. PERMIT NUMBER GAP	, _	13
FORCE WRITE INTIALS PERMIT No. Q E - 9 3 - 0 0 4		
SPECIAL CONDITIONS		en en en en en en en en en en en en en e

1 1331 SEQUENCE NO.	STATE OF MARYLAND	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
1 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE	COUNTY NUMBER R746
COLS. 3-6 ON ALL CARDS)		PERMIT NO. FROM "PERMIT TO DRILL WELL
DATE Received DATE WELL COMPLET JAN 2 5 994	Depth of Well 22 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	C E - 9 3 - 0 0 3 9 28 29 30 31 32 33 34 35 36 3
13 16 20	NOC (IO NEAREST FOOT)	
STREET OR RFD 11 3ast name	first name TOWN C	harles town
IBDIVISION GREEN BANK	SECTION	LOT
<u>WELL LOG</u> Not required for driven wells	GROUTING RECORD WELL HAS BEEN GROUTED	C 3
STATE THE KIND OF FORMATIONS	(Circle Appropriate Box)	PUMPING TEST
PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING	TYPE OF GROUTING MATERIAL CEMENT CM BENTONITE CLAY	HOURS PUMPED (nearest hour)
DESCRIPTION (Use FEET Check	45 48	PUMPING RATE (gal. per min.
additional directors	GALLONS OF WATER 100	to nearest gal.) METHOD USED TO
100 301 -	DEPTH OF GROUT SEAL (to nearest foot)	MEASURE PUMPING RATE LOCAL (distance from land surface)
SAND CLAY 6 10	from 6 ft. to 6 BOTTOM 58 ft. (enter 0 if from surface)	BEFORE PUMPING
	(enter 0 if from surface) casing CASING RECORD	17 20
mi7	types	WHEN PUMPING 122 25
Shale +Clay 10 20	appropriate STEEL CONCRETE	OF PUMP USED (for test)
Ved Clar 20 60	code below PLASTIC OTHER	P piston T turbine other
	MAIN Nominal diameter Total depth CASING top (main) casing of main casing	C centrifugal R rotary (describ below)
ERA? 4White60 80	TYPE (nearest inch) (nearest foot)	J jet S submersible
_C/49	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	27 27
white CLAY 80 130	C OTHER CASING (if used) A diameter depth (feet) C inch from to	PUMP INSTALLED
Speak mit med Course 130 139		DRILLER WILL INSTALL PUMP YES NO
mad Cooper 130 139		(CIRCLE) (YES or NO) IF DRILLER INSTALLS PUMP, THIS SECTION
med coarse 150 151	G CONTRACTOR	MUST BE COMPLETED FOR ALL WELLS EXCEPT HOME USE
5/44	screen type SCHEEN HECOHD	TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O)
	/ insert \ STEEL BRASS OPEN	IN BOX - SEE ABOVE:
	(appropriate code below BRONZE HOLE P L OT	CAPACITY: GALLONS PER MINUTE 31 35
	below PLASTIC OTHER	(to nearest gallon) PUMP HORSE POWER
	C 2	PUMP COLUMN LENGTH
	DEPTH (nearest ft.)	(nearest ft.)
	E 1 29 1 139 1	CASING HEIGHT (circle appropriate box and enter casing height)
	A 8 9 11 15 17 21	49 LAND SURFACE
	S 2 23 24 26 30 32 36	below (nearest foot)
CIRCLE APPROPRIATE LETTER A A WELL WAS ABANDONED AND SEALED	[*	LOCATION OF WELL ON LOT
WHEN THIS WELL WAS COMPLETED	\" \" \" \" \" \" \" \" \" \" \" \" \" \	A SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND/OR
ELECTRIC LOG OBTAINED	SLUI SIZE 1	N LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES
TEST WELL CONVERTED TO PRODUCTION	OF SCREEN (SEE NOCH)	(MEASUREMENTS TO WELL)
HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTE ACCORDANCE WITH COMAR 28,04,04 WITHOUS STATED IN		House
ACCORDANCE WITH COMAN ZOLUGE WELL CONDITIONS STATED IN ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION P SENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST	RE- IF WELL DRILLED WAS	/ [40 %]
SENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST MY KNOWLEDGE.	FLOWING WELL INSERT F IN BOX 68 68	
DRILLERS IDENT. NO.	OFP USE ONLY	₩ ,
Truelles A. Sun	(NOT TO BE FILLED IN BY DRILLER) T (E.RO.S.) W Q	32
DRILLERS SIGNATURE ON APPLICATION)	(E.R.O.S.)	1
John	70 72 07150 077	l inn Rd
STE SUPERVISOR (sign, of driller or journeyma	TELESCOPE LOG OTHER DATA	WOOD H.

4 \$0, 6/25/73 - 868dd-MIK	EMERGENCY/TEMP NO. IF ANY		
100073 SEQUENCE NO.	STATE OF I	MARYLAND	STATE PERMIT NUMBER
1 2 (THIS NUMBER IS TO BE PUNCHED	APPLICATION FOR PE	RMIT TO DRILL WELL nt or type	C E 9 2 - 0 4 4 1 70 fill in this form completely 79
IN COLS. 3-6 ON ALL CARDS) Date Received (APA)		B 3	LOCATION OF WELL
062593 OWNER INFORM	IATION	1 2 C//	C5621
13 ROMIE		8 COUNTY BREEN DIS	11 K F & 1 M S
15 Last Name Owner 103 Co is LANE	First Name 34	23 SUBDIVISION	42
36 Street or RFD	MA21921	SECTION 44 46	LOT 6 50
5/	O State 72 Zip 78	52 NEAREST TOWN	7 0 1-4 1-71
DONALD S. NEWHAM	25	MILES FROM TOWN (ente	er O if in town) 73 78 77 78
Drilless Hame Wall Drilles.	77 License No. 80	B 4	GXECN GANK COURT
Firmysame CKCIITON, Md. Z.	19/3	DIRECTION OF WELL FROM TOWN (CIRCLE BOX)	11 NEAR WHAT ROAD 30
and S. Mewnen	6/24/93 Date	N N N N N N N N N N N N N N N N N N N	ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) (CIRCLE APPROPRIATE BOX) (WESTER BOX) (WESTER BOX)
Signature WELL INFORMATIO		TOWN E	SOUTH
APPROX. PUMPING RATE (GAL. PER MIN.)	8 12		34 S a 5 37 DISTANCE FROM ROAD
AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY)	500 20		ENTER FT or MI 78 79
USE FOR WATER (CIRCLE APPR			NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
D NOME (SINGLE OR DOUBLE HOUSEH FARMING (LIVESTOCK WATERING & A IRRIGATION)	HOLD UNIT ONLY) AGRICULTURAL	Cecil COUNTY NAME	COUNTY NO.
INDUSTRIAL, COMMERCIAL, STATE AND AND AND AND AND AND AND AND AND AND	ND FEDERAL GOV. PERMIT)	STATE SIGNATURE	INSERT S 41
PUBLIC OR PRIVATE WATER COMPAN P APPROPRIATION PERMIT AND STATE	Y (REQUIRES	Q 7 0 1 9 3	July E. Suga 6/30/
APPROVAL) TEST OBSERVATION, MONITORING (N	·	43 48 6 NORTH 6 3 0 0 0	CO SIGNATURE () EXP. DATE D 0 GRID / 0 7 9 0 0 0
APPROPRIATION PERMIT)		SHOW MAJOR FEATUR	55 57 63
APPROXIMATE DEPTH OF WELL 24	FEET 28	BOX & LOCATE WELL WITH AN X SOURCES OF DRILLIN	
APPROXIMATE DIAMETER OF WELL	NEAREST INCH	1. Town Co	21160
METHOD OF DRILLING	(circle one)	3.	
BORED (or Augered) 30 AIR-ROTary AIR-PERcussion	ROTARY (Hydraulic Rotary)	FROM THE MAP HERE	
CABLE REVerse-ROTary	<u>DRive-POINT</u>	E /070	
other		N 630	→ 0000 X
REPLACEMENT OR DEEPEN (CIRCLE APPROPRIATE E		DRAW A SKETCH BEL	OW SHOWING LOCATION OF WELL IN Y TOWNS AND ROADS AND GIVE
N THIS WELL WILL NOT REPLACE AN	EXISTING WELL	DISTANCE FROM WEL	L TO NEAREST ROAD JUNCTION
THIS WELL WILL REPLACE A WELL ABANDONED AND SEALED		N 106	L TO NEAREST ROAD JUNCTION GREEN BANK COURT 5621
39 S THIS WELL WILL REPLACE A WELL			~121
D THIS WELL WILL DEEPEN AN EXIST			360
PERMIT NUMBER OF WELL TO BE REPL (IF AVAILABLE) 41	ACED OR DEEPENDED		
Not to be filled in by driller (OE	P USE ONLY)	-	
APPROP. PERMIT NUMBER	G A P S		
FORCE WRITE INITIALS PERMIT No. Q E 18 18 18 18 18 18 18 18 18 18 18 18 18	- 9 2 - 0 4 4 1 72 73 74 75 78 77 78 79		
SPECIAL CONDITIONS	22 70 70 10 11 10 70		

	· ·	•	
c ₁ 1223	SEOUENCE NO. (DENV USE ONLY)	STATE OF MARYLAND WELL COMPLETION REPORT	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
1 2 3 (THIS NUMBER IS TO BE IN COLS. 3-6 ON ALL CA	PUNCHED	FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE	COUNTY NUMBER C5621
ST/CO USE ONLY			PERMIT NO.
DATE Received	DATE WELL COMPLET	·	FROM "PERMIT TO DRILL WELL
6 1 1 9 1983	091093	22 / 3 2 28 (TO NEAREST FOOT)	C E - 9 2 - 0 4 4 1 28 29 30 31 32 33 34 35 36
CHAIRD RL. J.	s Romaine	first name TOWN F	ElkTon, Md.
STREET OR RFD	4 W F	IOWN _E	LOT 6
SUBDIVISION _GRA	LEN DANK F	SECTION	
Not required f	LOG or driven wells	WELL HAS BEEN GROUTED (Sind Approach Roy)	
STATE THE KIND OPENETRATED, THE	EIR COLOR, DEPTH,	TYPE OF GROUTING MATERIAL	HOURS PUMPED (nearest hour)
DESCRIPTION (Use	F WATER BEARING FEET Check if water	CEMENT CM BENTONITE CLAY BC	8 9
additional sheets if neede	d) FROM TO beann	NO. OF BAGS NO. OF POUNDS	PUMPING RATE (gal. per min. 25 1 1 15 15
0, ,-,	0 /2	GALLONS OF WATER	METHOD USED TO MEASURE PUMPING RATE BUCKET
Vied -While GlA		from Office ft. to 127 ft.	WATER LEVEL (distance from land surface)
YELLOW SAND		48 TOP 52 54 BOTTOM 58 (enter 0 if from surface)	BEFORE PUMPING 3 6 1
REd-Wh. To Che yellow sand Clay-grave REd-Wh. To Che REd-Wh. To Che REd-White-gra Clay yellow white SAND	1 12 56	casing CASING RECORD types	WHEN PUMPING
21 -1 5-1	156 106	insert \	22 25 THE OF PUMP USED (for test)
RED- WAITE CAN		code PI OT	A sir P piston T turbine
Rid. white gk	106 129	below PLASTIC OTHER	27 27
Clay	106 127	MAIN Nominal diameter Total depth	C centrifugal R rotary O other (describe
VESTOW. INStite		CASING top (main) casing of main casing TYPE (nearest inch) (nearest foot)	27 27 below)
card	127 132	PL 4 727	J jet Submersible
5,,,,,		60 61 63 64 66 70	
		E OTHER CASING (if used) A diameter depth (feet)	PUMP INSTALLED
		inch from to	DRILLER WILL INSTALL PUMP YES NO
		S S	(CIRCLE) (YES or NO)
			IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS
		screen type SCREEN RECORD	EXCEPT HOME USE TYPE OF PUMP INSTALLED
		or open hole ST BR HO	PLACE (A.C.J.P.R.S.T.O) IN BOX - SEE ABOVE:
		appropriate STEEL BRASS OPEN BRONZE HOLE	CAPACITY:
		code below PL OT	GALLONS PER MINUTE (to nearest gallon) 31 35
		PLASTIC OTHER	PUMP HORSE POWER
•			PUMP COLUMN LENGTH (nearest ft.)
		DEPTH (nearest ft.)	CASING HEIGHT (circle appropriate box
		A 8 9 11 15 17 21	and enter casing height) LAND SURFACE
		H 2 2 3 24 26 30 32 36	below (nearest foot)
CIRCLE APPR	OPRIATE LETTER		49 50 51
A A WELL WAS ABA	ANDONED AND SEALED L WAS COMPLETED	E 38 39 41 45 47 51	LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH A
E ELECTRIC LOG O		SLOT SIZE 1 20 2 3	BUILDING, SEPTIC TANKS, AND/OR N LANDMARKS AND INDICATE NOT LESS
P WELL	VERTED TO PRODUCTIO	OF SCREEN V I I INCH)	THAN TWO DISTANCES (MEASUREMENTS TO WELL)
ACCORDANCE WITH COMAR	WELL HAS BEEN CONSTRUCTED 26.04.04 "WELL CONSTRUCTION	8 1 199 187s	N.
AND IN CONFORMANCE WITH	I ALL CONDITIONS STATED IN T AND THAT THE INFORMATION PR AND COMPLETE TO THE BEST	GRAVEL PACK	
SENTED HEREIN IS ACCURATE MY KNOWLEDGE.		FLOWING WELL INSERT 68	Hour I was X was
DRILLERS IDENT. NO.	25	OEP USE ONLY] / / 40' X L '
Din al ST	Meen my	(NOT TO BE FILLED IN BY DRILLER)	
DRILLERS SIGNATURE	URE ON APPLICATION)	T (E.R.O.S.) W Q	
(70 72	•
SITE SUPERVISOR (SK	n, of driller or journeyman	TELESCOPE LOG OTHER DATA	The state of the state of the state of

ON ONE SEQUENCE NO.	STATE OF I	AADVI AND	STATE PERMIT NUMBER
DUUUD SECUENCE NO.	APPLICATION FOR PE		d E-92-0414
(THIS NUMBER IS TO BE PUNCHED	— . — .		70 fill in this form completely 79
N COLS. 3-6 ON ALL CARDS)	please pri		
Pate Received (APA)		B 3	LOCATION OF WELL
06/093 OWNER INFORM.	ATION	CECEK	D5199
PULLER I ITCH	A	8 COUNTY	21
15 Last Name Owner	First Name 34	GICENIB 23 SUBDIMISION	
208 647015 6	05 K 10 h 1	SECTION III	LOT
38 Street or RFD	1202	44 46	48 50
57 Town 70) State 72 Zip 78	52 NEAREST TOWN	170 WM
DRILLER INFORMATIO	ON	MILES FROM TOWN (ente	or O if in town) MI
Timorty J Seward	097		73 78 77 78
Sewal And Son	77 License No. 80	B 4	Grey BAK Rd
Firm Name	0.0/	DIRECTION OF WELL FROM TOWN (CIRCLE BOX)	11 NEAR WHAT ROAD 30
	pursul Del 873	N :	NOTEL TO
ddress Assert	5/20/93		ON WHICH SIDE OF HOAD WAR
Signature	/ Darfe	F-9	WESTSEAST
WELL INFORMATION		W(TOWN)E	SOUTH
APPROX. PUMPING RATE (GAL. PER MIN.)	10 12		34 2 6 0 37
AVERAGE DAILY QUANTITY NEEDED	ا اداما		DISTANCE FROM ROAD
(GAL PER DAY)	20		ENTER FT or MI 28 39
USE FOR WATER (CIRCLE APPR	OPRIATE BOX)		NOT TO BE FILLED IN BY DRILLER
HOME (SINGLE OR DOUBLE HOUSEH	OLD UNIT ONLY)		HEALTH DEPARTMENT APPROVAL
FARMING (LIVESTOCK WATERING & AC	GRICULTURAL	Cecil	
IRRIGATION) INDUSTRIAL, COMMERCIAL, STATE AN	D FEDERAL GOV	COUNTY NAME STATE	COUNTY NO.
OTHER (REQUIRES APPROPRIATION P	ERMIT)	SIGNATURE	INSERT S
PUBLIC OR PRIVATE WATER COMPANY P APPROPRIATION PERMIT AND STATE H	(REQUIRES	DATE ISSUED	16/94 Samo 6/16/94
APPROVAL)	•	43 48 C	O SIGNATURE EXP. DATE
T TEST, OBSERVATION, MONITORING (M	AY REQUIRE	NORTH 62900	UNID COLLEGE COLL
APPROPRIATION PERMIT)		50 SHOW MAJOR FEATUR	55 57 63 ES OF X
ASSESSINATE DEPTH OF WELL 100	FEET	BOX & LOCATE WELL	23 OF
APPROXIMATE DEPTH OF WELL 24	28	WITH AN X SOURCES OF DRILLING	WATER
4	NEAREST	1 well AT OPE	2/66
APPROXIMATE DIAMETER OF WELL	INCH	2.	
METHOD OF DRILLING (c	circle one)	3.	
BORED (or Augered) JETTED	Jetted & <u>DRIVEN</u>	WRITE THE BOX NUME	BER
37	HOTARY (Hydraulic Rotary)	FROM THE MAP HERE	
<u>CABLE</u> <u>REVerse-ROT</u> ary	<u>DR</u> ive- <u>POINT</u>	E 10510	
other		E 1080	
REPLACEMENT OR DEEPEN	ED WELLS	N 620	
HEPLACEMENT ON DEEPEN		DRAW A SKETCH BELO	OW SHOWING LOCATION OF WELL IN TOWNS AND ROADS AND GIVE
THIS WELL WILL NOT REPLACE AN E		DISTANCE FROM WELL	TO NEAREST ROAD JUNCTION
THIS WELL WILL REPLACE A WELL	THAT WILL BE	N	1
ABANDONED AND SEALED		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
39 S THIS WELL WILL REPLACE A WELL	ITIAL WILL BE USED	T \(\bar{\chi}\)	1
D THIS WELL WILL DEEPEN AN EXISTIN		8	
PERMIT NUMBER OF WELL TO BE REPLA		9	
(IF AVAILABLE) 41	52] ଶ୍ର/	·
Not to be filled in by driller (OEP	USE ONLY)	3/3.	1
	3 A P		Green BANKE
APPROP. PERIVIT NOVIDER 54	63	Site	-
FORCE WRITE NITIALS PERMIT No. CE -	92-0414	/	
67 68 IN BOX 70 71 72		<u> </u>	
SPECIAL CONDITIONS	•		
_			

• • • • • • • • • • • • • • • • • • • •			
c ₁ 7796	SEQUENCE NO. (DENV USE ONLY)	STATE OF MARYLAND WELL COMPLETION REPORT	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
: 2'3 (THIS NUMBER IS TO BE P IN COLS 3-6 ON ALL CARI	PUNCHED	FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE	COUNTY NUMBER D5199
ST/CO USE ONLY	DATE WELL COMPL	ETED Depth of Well	PERMIT NO. FROM "PERMIT TO DRILL WELL!
AUG 1 6 1993	07289	22 22 26	GE-92-0414
8 10 11933	15	(TO NEAREST FOOT)	28 29 30 31 32 33 34 35 38 37
OWNER RHIER		136'	
STREET OR RED GOOD	Tate Came Runny	first name TOWN C	harles Town
SUBDIVISION GRE	EN BAN	SECTION	LOT
WELL I Not required for	<u>_OG</u> driven wells	WELL HAS BEEN GROUTED WELL Appropriate Roy	<u>C 3</u>
STATE THE KIND OF PENETRATED, THEIF	FORMATIONS COLOR DEPTH	(Circle Appropriate Box) TYPE OF GROUTING MATERIAL	PUMPING TEST
THICKNESS AND IF	WATER BEARING	CEMENT CM BENTONITE CLAY BO	HOURS PUMPED (nearest hour)
DESCRIPTION (Use additional sheets if needed)	FEET Che if w	45 48	PUMPING RATE (gal. per min.
	06	NO. OF BAGS 5 NO. OF POUNDS 200 GALLONS OF WATER	to nearest gal.)
Top Soil	0 6	DEPTH OF GROUT SEAL (to nearest foot)	METHOD USED TO MEASURE PUMPING RATE
Sand mix	6 10	from 6 ft. to 7 0 ft.	WATER LEVEL (distance from land surface)
		48 TOP 52 54 BOTTOM 58 (enter 0 if from surface)	BEFORE PUMPING ()
Redolar	10 90	casing CASING RECORD types	WHEN PUMPING
,		/ insert \ S C C	22 25 PAPE OF PUMP USED (for test)
o Lusute	40 60	\ code \ DI OT	A ar P piston T turbine
Redublite		below PLASTIC OTHER	27 27
	60 90	MAIN Nominal diameter Total depth	C centrifugal R rotary Other (describe
white Clay	60 70	CASING top (main) casing of main casing TYPE (nearest inch) (nearest foot)	27 27 below)
m=4		PL W ROIT	jet Submersible
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	90 100 X		27 27
med Course,	1,0 1,00	OTHER CASING (if used)	
1 de Sand	120 12/ 4	diameter depth (feet) H inch from to	PUMP INSTALLED
med Course, white Sand Coarse where	100 136 4	C	DRILLER WILL INSTALL PUMP YES NO
Corre win		ŝ	(CIRCLE) (YES or NO) IF DRILLER INSTALLS PUMP, THIS SECTION
SAND		NG L	MUST BE COMPLETED FOR ALL WELLS EXCEPT HOME USE
		screen type SCREEN RECORD or open hole	TYPE OF PUMP INSTALLED
		insert ST BR HO	PLACE (A,C,J,P,R,S,T,O) IN BOX - SEE ABOVE:
		(appropriate) STEEL BRASS OPEN BRONZE HOLE	CAPACITY:
		code below PL OT	GALLONS PER MINUTE (to nearest gallon)
		PLASTIC OTHER	PUMP HORSE POWER
		C 2	PUMP COLUMN LENGTH 37 41
		DEPTH (nearest ft.)	(nearest ft.) CASING HEIGHT (circle appropriate box
			and enter casing height)
		C 8 9 11 15 17 21	LAND SURFACE
		S 2 23 24 26 30 32 38	below
CIRCLE APPROP			49 50 51 LOCATION OF WELL ON LOT
A A WELL WAS ABANG	DONED AND SEALED WAS COMPLETED	IN 22 22 4.	A SHOW PERMANENT STRUCTURE SUCH AS
E ELECTRIC LOG OBT		SLOT SIZE 12-3-	BUILDING, SEPTIC TANKS, AND/OR LANDMARKS AND INDICATE NOT LESS
TEST WELL CONVE	RTED TO PRODUCTION	ON DIAMETER (NEAREST	THAN TWO DISTANCES
HEREBY CERTIFY THAT THIS WE	HAS REEN CONSTRUCT	OF SCREEN 1 INCH)	(MEASUREMENTS TO WELL)
ACCORDANCE WITH COMAR 26	.04.04 "WELL CONSTRUCT	THE CRAVEL DACK NO 1170	owe?
ABOVE CAPTIONED PERMIT, AND SENTED HEREIN IS ACCURATE AN	THAT THE INFORMATION	OF IF WELL DRILLED WAS	80
MY KNOWLEDGE.	- 05	FLOWING WELL INSERT F IN BOX 68 68	<i>A</i> -
DRILLERS IDENT. NO. L	QII	OEP USE ONLY	
Two Au		(NOT TO BE FILLED IN BY DRILLER)	1 /1.1.
DRILLERS SIGNATURE (MUST MATCH SIGNATUR	RE ON APPLICATION)	T (E.R.O.S.) W Q	140432 V
I Ilms	2	70 72	150
SITE SUPERVISOR (sign.	of driller or journeyme	TELESCOPE LOG OTHER DATA CASING INDICATOR	The same and again
الأناسين والمرابع والمرابع والمرابع والمرابع والمرابع والمرابع والمرابع والمرابع والمرابع والمرابع والمرابع	different from normitte	A I LASING INDICATOR	

1 180.6/9/93 #86320 - M. 5 R EMERGENCY/TEMP NO. IF ANY	
STATE OF M	MARYLAND STATE PERMIT NUMBER
APPLICATION FOR PE	RMIT TO DRILL WELL
IN COLS. 3-8 ON ALL CARDS)	
Date Received (APA) O (0 0 9 9 3 OWNER INFORMATION	LOCATION OF WELL Replacement
GILBORT RICHARD	8 COUNTY 21
15 Last Name Owner First Name 34	23 SUBDIVISION 42
Street or RFD Street or RFD Street or RFD 70 State 72 70 State 72 70 State 72	SECTION 44 48 LOT 48 50
DRILLER INFORMATION	52 NEAREST TOWN MILES FROM TOWN (enter 0 if in town)
Oriller's Same Oriller's Same 77 License No. 80	B 4
FIFTH NAME F HARADISE RE HELG 21018	DIRECTION OF WELL FROM TOWN (CIRCLE BOX) NORTH
Address Janes A. Harrett Sc. 6-8-93	N B NE ON WHICH SIDE OF ROAD WEEL
Signature Date 2 WELL INFORMATION	B=9 REST SOUTH SOUTH
APPROX. PUMPING RATE (GAL PER MIN.)	34 25 50 37
(GAL PER DAY) AVERAGE DAILY QUANTITY NEEDED 14 20	DISTANCE FROM ROAD ENTER FT or MI 38 39
USE FOR WATER (CIRCLE APPROPRIATE BOX)	NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
D HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY) F FARMING (LIVESTOCK WATERING & AGRICULTURAL	Cecil COUNTY NAME COUNTY NO.
IRRIGATION) INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOV. OTHER (REQUIRES APPROPRIATION PERMIT)	STATE SIGNATURE INSERT 9
PUBLIC OR PRIVATE WATER COMPANY (REQUIRES P APPROPRIATION PERMIT AND STATE HEALTH DEPARTMENT	DATE ISSUED (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
APPROVAL) T TEST, OBSERVATION, MONITORING (MAY REQUIRE APPROPRIATION PERMIT)	43
	SHOW MAJOR FEATURES OF BOX & LOCATE WELL
APPROXIMATE DEPTH OF WELL 24 28	WITH AN X SOURCES OF DRILLING WATER
APPROXIMATE DIAMETER OF WELL 6 NEAREST INCH	1. 2.
METHOD OF DRILLING (circle one) BORED (or Augered) JETTED Jetted & DRIVEN	3. WRITE THE BOX NUMBER
30 AIR-ROTary AIR-PERcussion ROTARY (Hydraulic Rotary)	FROM THE MAP HERE
<u>CABLE</u> <u>REV</u> erse <u>-ROT</u> ary <u>DR</u> ive- <u>POINT</u>	E 10%0
REPLACEMENT OR DEEPENED WELLS	N 630 ← 000
(CIRCLE APPROPRIATE BOX)	DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION
N THIS WELL WILL NOT REPLACE AN EXISTING WELL THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED	N .
39 S THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY	\
D THIS WELL WILL DEEPEN AN EXISTING WELL	
PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENDED (IF AVAILABLE) 41 52	B-0
Not to be filled in by driller (OEP USE ONLY)	
APPROP. PERMIT NUMBER G A P 63	
FORCE NITIALS PERMIT NO. Q E - 9 2 - 0 4 1 6	PIE
SPECIAL CONDITIONS	

	• ·					
c ·	7798		JENCE I		STATE OF MARYLAND WELL COMPLETION REPORT	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
(Th	2 3 HIS NUMBER IS TO BE F COLS. 3-6 ON ALL CARI	PUNCHEE DS)			FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE	COUNTY NUMBER Replacement
ST	/CO USE ONLY		ELL CO	MPLETED	Depth of Well	PERMIT NO. FROM "PERMIT TO DRILL WELL
	TE Received	DAIEW	121/	10 2	22 2 0 0 28	CE-92-0416
<u> </u>	AUG \$ 9 1893		NAIR		(TO NEAREST FOOT)	26 29 30 31 32 33 34 35 38 32
OV	VNER	6	Fill	ERT	Richard	0
	REET OR RFD	last nam	e 29	7 JA	CKS ON STATION ITS DAME TOWN	PERRYUILE, Md. 21903
su	BDIVISION				SECTION	
	WELL Not required for	driven w	rells		WELL HAS BEEN GROUTED VI	C 3
	STATE THE KIND OF	FORMAT	TIONS		(Circle Appropriate Box) TYPE OF CARCUTING MATERIAL	PUMPING TEST
1	PENETRATED, THEIR THICKNESS AND IF	WATER E	SEARING	3	CEMENT C M BENTONITE CLAY B C	HOURS PUMPED (nearest hour)
DE	SCRIPTION (Use	FE	ET	Check if water bearing	45 48	PUMPING RATE (gal. per min.
add	ditional sheets if needed)	FROM	TO	cearing	NO. OF BAGS NO. OF POUNDS 16.34 GALLONS OF WATER	to nearest gal.) METHOD USED TO Bucket + Wat.
1	151/211 +				DEPTH OF GROUT SEAL (fo nearest foot)	MEASURE PUMPING RATE
1/	CHOW	İ			from O ft. to \mathcal{H} O ft.	WATER LEVEL (distance from land surface)
	IELLOW + BROWN SAND T				(enter 0 if from surface)	BEFORE PUMPING 4 17 20
1	CAND +				casing CASING RECORD	WHEN PUMPING
-	J/T/YY /	0	25	1 1	types insert ST CO	22 25
	SRAVEL				appropriate STEEL CONCRETE CODE	TYPE OF PUMP USED (for test) A air P piston T turbine
1 (TRITUEL			[]	below PLASTIC OTHER	A air P piston T turbine
					**************************************	C centrifugal R rotary O other (describe
					CASING top (main) casing of main casing	centification (described property) (described prope
		1			TYPE (nearest inch) (nearest foot)	J jet S submersible
1,	J=1/20	25	131		P2 6 40 1	27
	YELLOW CLAY				60 61 63 64 68 70 E OTHER CASING (if used)	
'	CLAY		1		A diameter depth (feet)	PUMP INSTALLED
1	/				H inch from to	<u></u>
	•	1		1	C C	(CIRCLE) (YES or NO)
					N N	IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS
1	SOFT GREEN	131	38		screen type SCREEN RECORD	EXCEPT HOME USE
1]			or open hole ST BR HO	TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O)
10	WEATHERED				/ insert \ STEEL BRASS OPEN	IN BOX - SEE ABOVE:
	ROCK '				BRONZE HOLE	CAPACITY: GALLONS PER MINUTE
	<i>,</i> - 1			İ	below PLASTIC OTHER	(to nearest gallon)
	1/11/10	20		1,_	C2	PUMP HORSE POWER
10	HAPA GREEN	158	200) [1 2	PUMP COLUMN LENGTH (nearest ft.)
1'	1/2/1/			1	DEPTH (nearest ft.)	CASING HEIGHT (circle appropriate box
	+ GRAY				$\begin{bmatrix} E & 1/2/1 & 0 & 1/2 & 0 & 1/2 & $	and enter casing height)
ļ	GRANITE					LAND SURFACE (nearest
-	O Jeiner / L				S 23 24 28 30 32 38	below J foot)
\vdash	CIRCLE APPRO	PRIATE L	ETTER	AL CO.	R 3 41 45 47 51	LOCATION OF WELL ON LOT
	A WELL WAS ABAN WHEN THIS WELL	NDONED WAS CO	AND SE MPLETE	ALED D	E 38 39 41 45 47 51	A SHOW PERMANENT STRUCTURE SUCH AS.
	E ELECTRIC LOG OB				SLOT SIZE 13	BUILDING, SEPTIC TANKS, AND/OR N LANDMARKS AND INDICATE NOT LESS
-	TEST WELL CONVI		O PROD	UCTION	DIAMETER (NEAREST	THAN TWO DISTANCES
	P WELL				OF SCREEN 56 50 INCH)	(MEASUREMENTS TO WELL)
	HEREBY CERTIFY THAT THIS W				from to	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
A	CCORDANCE WITH COMAR 2 ND IN CONFORMANCE WITH A BOVE CAPTIONED PERMIT, AN ENTED HEREIN IS ACCURATE A	ALL CONDI	E INFORM	ATION PRE-	IF WELL DRILLED WAS	\%
S	ENTED HEREIN IS ACCURATE A LY KNOWLEDGE.	NNU COMPL	_ IC IO IF	,_ 0201 OF	FLOWING WELL INSERT 5 IN BOX 68 68	the Retroit
Γ,	ORILLER'S IDENT, NO. 1		2_	<i>1</i>	OEP USE ONLY	the Monse
- ['	Charle U	Ha	mille	MI	(NOT TO BE FILLED IN BY DRILLER)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
-	ORILLERS SIGNATURE				T (E.R.O.S.) W Q	1 2 K V Sec. 1= 1
- 10	MUST MATCH SIGNATU	IRE ON A	PPLICAT	ION)	70 72 7	E 7 2 10 /2
					TELESCOPE LOG OTHER DATA	that to
- 1	SITE SUPERVISOR (sign	n, or drille	or jour	neyman	CASING STATISTICATOR	Commence of the commence of th

c1 8241	SEQU	JENCE N	NO.	STATE OF MARYLAND WELL COMPLETION REPORT	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
1 2 3 (THIS NUMBER IS TO E	BE PUNCHED			FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE	COUNTY NUMBER Greenbank
ST/CO USE ONLY					PERMIT NO.
DATE Received	DATE W	ELL COI	MPLETED	Depth of Well	FROM "PERMIT TO DRILL WELL
JUN 8 1983	05	20	93	22 / 5 / 26	C E - 9 2 - 0 3 3 4 28 29 30 31 32 33 34 35 36 3 =
8 13	15		20	(TO NEAREST FOOT)	20 20 30 31 32 33 34 33 35
OWNER BR.		NA B		first name	1:1. in Tax Pela
STREET OR RFD 4	3/ last name	Dev	rowsh		lilming Ton, Peta.
	KEN BA	uK.		SECTION	LOT
WE	LL LOG	مالہ	T	GROUTING RECORD (YES) NO WELL HAS BEEN GROUTED	C 3
Not required STATE THE KIND	d for driven w			(Circle Appropriate Box)	1 2 PUMPING TEST
PENETRATED, T	HEIR COLOR	. DEPTH	. 1	TYPE OF GROUTING MATERIAL	
THICKNESS AN	D IF WATER E	EARING	i	CEMENT CM BENTONITE CLAY BC	HOURS PUMPED (nearest hour)
DESCRIPTION (Use additional sheets if need	fed) FROM		Check if water bearing	45 46	PUMPING RATE (gal. per min. // 5
additional sneets if need	GOU) FROM	-10	Scarry.	NO. OF BAGS / NO. OF POUNDS 200 GALLONS OF WATER	to nearest gal.) METHOD USED TO
	1]	DEPTH OF GROUT SEAL (to nearest foot)	MEASURE PUMPING RATE
Top soil	0	1]	from 0 ft. to 1 4 6 ft.	WATER LEVEL (distance from land surface)
1	ا ایا	8		48 TOP 52 54 SOTTOM 58 (enter 0 if from surface)	BEFORE PUMPING 572
Top soil yellow clay white clay-so 9 RAUEL	7 /	•	 	(enter 0 if from surface) Casing CASING RECORD	17 20
INhite clay- s.	and but		.	(burses)	WHEN PUMPING
1000	8	50		insert SII CO	TYPE OF PUMP USED (for test)
$V^{\Lambda \sigma \circ \cdot \cdot}$. '.	.11		\ appropriate	
REd-white ch	4/52	146	_ 	code below PLASTIC OTHER	A dir P piston I turbine
Y'	1111	15%	1	Total death	other Olydescribe
HARITO SAMO	176	1,5,		MAIN Nominal diameter Total depth CASING top (main) casing of main casing	C centrifugal R rotary O (describe below)
1		1		CASING top (main) casing of main casing TYPE (nearest inch) (nearest foot)	
					jet Submersible
1	1			P Z 4 7 7 70 81 84 86 70	27 27
	Ì			60 61 63 64 66 70 E OTHER CASING (if used)	
				A diameter depth (feet)	PUMP INSTALLED
		1		inch from to	
		}		CA S	(CIRCLE) (YES or NO)
		l			IF DRILLER INSTALLS PUMP, THIS SECTION
		1	1	ZG	MUST BE COMPLETED FOR ALL WELLS
}				screen type SCREEN RECORD	EXCEPT HOME USE TYPE OF PUMP INSTALLED
1				or open hole ST BR HO	PLACE (A.C.J.P.R.S.T.O)
		•	1	insert STEEL BRASS OPEN	IN BOX - SEE ABOVE:
1			l .		CAPACITY:
				(appropriate) BRONZE HOLE Code	CAPACITY: GALLONS PER MINUTE
				appropriate code below BRONZE HOLE DIT	GALLONS PER MINUTE (to nearest gallon)
				appropriate code below PLASTIC OTHER	GALLONS PER MINUTE (to nearest gallon) PUMP HORSE POWER 31 35 37 41
				appropriate code below PLASTIC OTHER	GALLONS PER MINUTE (to nearest gallon) PUMP HORSE POWER PUMP COLUMN LENGTH
				appropriate code below PLASTIC OTHER	GALLONS PER MINUTE (to nearest gallon) PUMP HORSE POWER PUMP COLUMN LENGTH (nearest ft.)
				appropriate code below DEPTH (nearest ft.) DEPTH (nearest ft.)	GALLONS PER MINUTE (to nearest gallon) PUMP HORSE POWER PUMP COLUMN LENGTH (nearest ft.) CASING HEIGHT (circle appropriate box and enter casing height)
				appropriate code below DEPTH (nearest ft.) DEPTH (nearest ft.)	GALLONS PER MINUTE (to nearest gallon) PUMP HORSE POWER PUMP COLUMN LENGTH (nearest ft.) CASING HEIGHT (circle appropriate box and enter casing height)
				appropriate code below BRONZE HOLE PLASTIC OTHER DEPTH (nearest ft.)	GALLONS PER MINUTE (to nearest gallon) PUMP HORSE POWER PUMP COLUMN LENGTH (nearest ft.) CASING HEIGHT (circle appropriate box and enter casing height) LAND SURFACE (nearest
				appropriate code below PLASTIC OTHER DEPTH (nearest ft.) A 8 9 11 15 17 21 C 2 2 23 24 28 30 32 36	GALLONS PER MINUTE (to nearest gallon) PUMP HORSE POWER PUMP COLUMN LENGTH (nearest ft.) CASING HEIGHT (circle appropriate box and enter casing height) LAND SURFACE
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A A WELL WAS A	ABANDONED	AND SE	ALED	appropriate code below PLASTIC OTHER DEPTH (nearest ft.) E 1	GALLONS PER MINUTE (to nearest gallon) PUMP HORSE POWER PUMP COLUMN LENGTH (nearest ft.) CASING HEIGHT (circle appropriate box and enter casing height) LAND SURFACE LAND SURFACE (nearest foot) LOCATION OF WELL ON LOT
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A WELL WAS A WHEN THIS WI	ABANDONED ELL WAS CO OBTAINED	AND SE MPLETE		appropriate code below PLASTIC OTHER DEPTH (nearest ft.) PLASTIC OTHER DEPTH (nearest ft.) SCHOOL STATE	GALLONS PER MINUTE (to nearest gallon) PUMP HORSE POWER PUMP COLUMN LENGTH (nearest ft.) CASING HEIGHT (circle appropriate box and enter casing height) LAND SURFACE LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND/OR LANDMARKS AND INDICATE NOT LESS
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A WELL WAS A WHEN THIS WILL E ELECTRIC LOG TEST WELL CO WELL THEREBY CERTIFY THAT TO ACCORDANCE WITH COM	ABANDONED ELL WAS COI OBTAINED ONVERTED T HIS WELL HAS BE MARY 28,040.4 WAS	AND SEMPLETE O PROD EEN CONS EEU CONS FONS STA	DUCTION TRUCTED IN STRUCTION" TEO IN THE	appropriate code below PLASTIC OTHER DEPTH (nearest ft.) PLASTIC OTHER DEPTH (nearest ft.) SC 23 24 28 30 32 38 E 3 38 39 41 45 47 51 SLOT SIZE 1 20 2 3 (NEAREST OF SCREEN 56 60 INCH) from 10 150	GALLONS PER MINUTE (to nearest gallon) PUMP HORSE POWER PUMP COLUMN LENGTH (nearest ft.) CASING HEIGHT (circle appropriate box and enter casing height) LAND SURFACE LAND SURFACE LAND SURFACE (nearest foot) LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH ASBUILDING, SEPTIC TANKS, AND/OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)
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A WELL WAS A WHEN THIS WILL E ELECTRIC LOG TEST WELL CO WELL THEREBY CERTIFY THAT TO ACCORDANCE WITH COM	ABANDONED ELL WAS CO CONVERTED T HIS WELL HAS BE MAR 28.04.04 "W MITH ALL CONDI HIS WELL HAS BE MAR 28.04.04 "W MITH ALL CONDI HIT, AND THAT THE MATE AND COMPLETE MATER AND COMPLETE MATER AND COMPLETE	AND SEMPLETE O PROD EEN CONS EIL CONS TIONS STA E INFORM ETE TO TI	DUCTION TRUCTED IN STRUCTION" TEO IN THE	appropriate code below PLASTIC OTHER C 2 DEPTH (nearest ft.) E 1 P L O T PLASTIC OTHER DEPTH (nearest ft.) E 2 23 24 28 30 32 38 E 3 38 39 41 45 47 51 SLOT SIZE 1 2 2 3 (NEAREST OF SCREEN 56 50 INCH) GRAVEL PACK L 144 157 IF WELL DRILLED WAS FLOWING WELL INSERT	GALLONS PER MINUTE (to nearest gallon) PUMP HORSE POWER PUMP COLUMN LENGTH (nearest ft.) CASING HEIGHT (circle appropriate box and enter casing height) LAND SURFACE LAND SURFACE LAND SURFACE (nearest foot) LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH ASBUILDING, SEPTIC TANKS, AND/OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)
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1 4 80, 4//9/93# 85457-45E	MERGENCY/TEMP NO. IF ANY			
B 1 2003 SEQUENCE NO.	STATE OF I		STATE PERMIT NU	
1 213 NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)	APPLICATION FOR PE please pri		C E - 9 2 - 1	0 3 2 8 ompletely ⁷⁹
Date Received (APA)	TON	B 3	LOCATION OF WELL	D5096
0 9 9 9 3 OWNER INFORMA	710N	SCOUNTY	21	
15 Last Name Owner F	irst Name 34	GREENBA 23 SUBDIMSION	WK FORMS	2 42
36 Street or RFD	55	SECTION LAG	LOT 7 50 750	
Town 70 S	State 72 Zip 78	52 NEAREST TOWN		
DONALD S. NEWISAM	/ 3 8 T7 License No. 80	MILES FROM TOWN (ente	Profit in town)	M 77 78
Shore Well Drillers	***************************************	DIRECTION OF WELL FROM	39 GREEN BAN	
Address C. Treeman	4/19/95	TOWN (CIRCLE BOX)	ON WHICH SIDE OF ROAD	NCCTTH
Signature WELL INFORMATION	Date	8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(CIRCLE APPROPRIATE BO	
APPROX. PUMPING RATE (GAL PER MIN.)	0	TOWN TOWN	34370	37
AVERAGE DAILY QUANTITY NEEDED (GAL PER DAY)	0 0 12		DISTANCE FROM	
USE FOR WATER (CIRCLE APPRO			NOT TO BE FILLED IN BY DR HEALTH DEPARTMENT APPF	
D HOME (SINGLE OR DOUBLE HOUSEHO		Cecil		
IRRIGATION) INDUSTRIAL, COMMERCIAL, STATE AND OTHER (REQUIRES APPROPRIATION PE	FEDERAL GOV.	COUNTY NAME STATE SIGNATURE	·	SERT S
PUBLIC OR PRIVATE WATER COMPANY APPROPRIATION PERMIT AND STATE HE	(REQUIRES	DATE ISSUED 0 4 2 2 9 3	Thuls E. Sm	<u> 4/22</u>
APPROVAL) TEST, OBSERVATION, MONITORING (MAIN APPROPRIATION PERMIT)	Y REQUIRE	NORTH 6 3 0 0 0	O SIGNATURE O EAST / O 7 9 SS 57	0 0 0 63
		SHOW MAJOR FEATUR BOX & LOCATE WELL -	ES OF	
APPROXIMATE DEPTH OF WELL 750	PEET 28	WITH AN X SOURCES OF DRILLING	1	
APPROXIMATE DIAMETER OF WELL	MEAREST INCH	1. Town - Geci	ITON	
METHOD OF DRILLING (cir. BORED (or Augered) JETTED	Jetted & DRIVEN	3. WRITE THE BOX NUME	BER	
30 AIR-ROTary AIR-PERcussion E CABLE REVerse-ROTary	ROTARY (Hydraulic Rotary) DRive-POINT	FROM THE MAP HERE		
other		E 1070	2 000	
REPLACEMENT OR DEEPENE.		DRAW A SKETCH BELC	OW SHOWING LOCATION OF V	WELL IN
THIS WELL WILL NOT REPLACE AN EX	ISTING WELL	DISTANCE FROM WELL	TOWNS AND ROADS AND GI	ON .
THIS WELL WILL REPLACE A WELL THE ABANDONED AND SEALED 39 S THIS WELL WILL REPLACE A WELL THE		1 × 39 G	RULL BANK CO	SILT
S THIS WELL WILL REPLACE A WELL THE AS A STANDBY D THIS WELL WILL DEEPEN AN EXISTING		GREEN	REIN BANK CO BANK FARMS	2
PERMIT NUMBER OF WELL TO BE REPLAC (IF AVAILABLE) 41	ED OR DEEPENDED	1	7096	
Not to be filled in by driller (OEP t	JSE ONLY)			
APPROP. PERMIT NUMBER G	A P 63			
	9 2 - 0 3 2 8		<u> </u>	-
SPECIAL CONDITIONS				•

•	<u> </u>		
c 1 8234	SEQUENCE NO. (DENV USE ONLY)	STATE OF MARYLAND WELL COMPLETION REPORT	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
1 2 3 (THIS NUMBER IS TO BE F	PUNCHED	FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE	COUNTY NUMBER D5096
IN COLS. 3-6 ON ALL CAR			PERMIT NO.
DATE Received	DATE WELL COMPLETE	Depth of Well 22 1 1 8 26	FROM "PERMIT TO DRILL WELL
JUN 8 1933	051993	(TO NEAREST FOOT)	28 29 30 31 32 33 34 35 36 37
OWNER MORRI	SON Phili		
STREET OR RED 130	ast name A. Ken		ERRY V. ILE, Mb.
SUBDIVISION GREE	N BONK FAX		LOT 7
WELL Not required for	LOG	GROUTING RECORD WELL HAS BEEN GROUTED	C 3
STATE THE KIND OF	FORMATIONS	(Circle Appropriate Box)	1 2 PUMPING TEST
PENETRATED, THEIF THICKNESS AND IF	R COLOR, DEPTH,	TYPE OF GROUTING MATERIAL CEMENT CM BENTONITE CLAY BC	HOURS PUMPED (nearest hour)
DESCRIPTION (Use	FEET Check	45 46	PUMPING RATE (gal. per min. 3 0
additional sheets if needed)	FROM TO bearing	NO. OF BAGS NO. OF POUNDS	to nearest gal.)
		GALLONS OF WATER	METHOD USED TO MEASURE PUMPING RATE
Red-ING. To		from 0 ft. to 105 ft.	WATER LEVEL (distance from land surface)
CIAV	0 8	48 TOP 52 54 BOTTOM 58 (enter 0 if from surface)	BEFORE PUMPING 40
1 1 7 000074		casing <u>CASING RECORD</u>	WHEN PUMPING 8 0 3
1 1 020111	8 46	types insert ST CO	22 25
Clay. July.		appropriate STEEL CONCRETE	TYPE OF PUMP USED (for test)
White clay-sax	46 57	below PLASTIC OTHER	piston turbine
Clay grades White clay - SAX BED-White Clay White Clay-SAND COARSONShite COARSONShite	57 62	MAIN Nominal diameter Total depth CASING top (main) casing of main casing	C centrifugal R rotary Other (describe below)
1117 alou cound	(Z /6Z	TYPE (nearest inch) (nearest foot)	
WAIL CMY SANCE		P 4 4 113	jet Submersible
COARSOWhiTo	182 118	60 61 63 64 66 70	
SAND	100 110	OTHER CASING (if used) A diameter depth (feet)	PUMP INSTALLED
		H inch from to	DRILLER WILL INSTALL PUMP YES (NO)
		§	(CIRCLE) (YES or NO)
			IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS
		screen type SCREEN RECORD	EXCEPT HOME USE TYPE OF PUMP INSTALLED
		or open hole ST BR HO	PLACE (A,C,J,P,R,S,T,O)
		insert STEEL BRASS OPEN	IN BOX - SEE ABOVE:
		code BRONZE HOLL	GALLONS PER MINUTE
		below PLASTIC OTHER	(to nearest gallon) PUMP HORSE POWER
		C 2	PUMP COLUMN LENGTH 37 41
·		1 2 DEPTH (nearest ft.)	(nearest ft.)
		E P 4 1/3 1/8	CASING HEIGHT (circle appropriate box and enter casing height)
1.		A 8 9 11 15 17 21	LAND SURFACE
1		H 2	helaw (nearest
CIDOLE ADDRO	PRIATE LETTER	S 23 24 28 30 32 38	49 foot)
A A WELL WAS ABAN	NDONED AND SEALED	E 3 41 45 47 51	LOCATION OF WELL ON LOT
A WHEN THIS WELL		SLOT SIZE 1 20 2 3	A SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND/OR
E ELECTRIC LOG OB	TAINED ERTED TO PRODUCTION		N LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES
P WELL		OF SCREEN (S6 60 INCH)	(MEASUREMENTS TO WELL)
I HEREBY CERTIFY THAT THIS W ACCORDANCE WITH COMAR 2	ROADA "WELL CONSTRUCTION		1
ANO IN CONFORMANCE WITH A ABOVE CAPTIONED PERMIT. AN SENTED HEREIN IS ACCURATE A	ALL CONDITIONS STATED IN THE	GRAVEL PACK	[HOUST
SENTED HEREIN IS ACCURATE A MY KNOWLEDGE.		FLOWING WELL INSERT 5 IN BOX 68 68	1
DRILLERS IDENT. NO. I	138	OEP USE ONLY	ا عجي سيد ١
4 Jan all 5.	Thurs on	(NOT TO BE FILLED IN BY DRILLER)	
DRIT FRS SIGNATURE	//	T (E.R.O.S.) W Q	
(MUST MATCH SIGNATU	IRE ON APPLICATION)	70 72	
OFF OURSENANCE (-)-	of driller or journayman	TELESCOPE LOG OTHER DATA	
SITE SUPERVISOR (SIGN	n. of driller or journeyman if different from permittee		

			•	•	·	
С	1 8229		IENCE N		STATE OF MARYLAND WELL COMPLETION REPORT	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
17	2 3 THIS NUMBER IS TO BE F I COLS. 3-6 ON ALL CAR	PUNCHED		,	FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE	COUNTY NUMBER D5171
_	ST/CO USE ONLY				D. Ab. (Mall	PERMIT NO. FROM "PERMIT TO DRILL WELI
D	ATE Received	DATE WE		APLETED	Depth of Well	
Г	Mid 1 6 1993	07	20	7 3	22/50 28	C E - 9 2 - 0 8 2 2 28 29 30 31 32 33 34 35 36 3
ے	13	15		20	(TO NEAREST FOOT)	
O	WNER	12 m		. 1	first name TOWAL	paryville mel.
s	TREET OR RFD	last sant			142/2 20/ IOWN	LOT
s	UBDIVISION	orcen	<u> </u>	grk.	PAINS SECTION_	
Г	WELL Not required for	r driven we	el is		WELL HAS BEEN GROUTED (Circle Appropriate Box)	C 3
Γ	STATE THE KIND OF PENETRATED, THEI	FORMATI RICOLOR	IONS DEPTH		TYPE OF GROUTING MATERIAL	PUMPING TEST
l	THICKNESS AND IF	WATER B	EARING		CEMENT CM BENTONITE CLAY	HOURS PUMPED (nearest hour)
D	ESCRIPTION (Use	FEE		Check if water	45 46 .	PUMPING RATE (gal. per min. 20
a	dditional sheets if needed)		TO	bearing	NO. OF BAGS NO. OF POLINDS	to nearest gal.)
١.	TOPSOIL		6	l	DEPTH OF GROUT SEAL (to nearest foot)	METHOD USED TO MEASURE PUMPING RATE _ BUKET
l	<i>_</i>	6"	31	l		WATER LEVEL (distance from land surface)
l	Clay		I	1		BEFORE PUMPING 80
	SAND CHAYANT	3'	18'	1	(enter 0 if from surface)	BEFORE POMPING
1-	Spar Company			1	casing CASING RECORD types	WHEN PUMPING (27)
1	SILTY SAND	18	26	•	/ insert \ ST CO	TYPE OF PUMP USED (for test)
1	CINY MINIT	26	36	l	appropriate code PL OT	
	POATSE SAND		48		below PLASTIC OTHER	air P piston T turbine other
	COAKE SAND	34	10		MAIN Nominal diameter Total depth CASING top (main) casing of main casing	C centrifugal R rotary O (describe below)
١		48	60		TYPE (nearest inch) (nearest foot)	J jet S submersible
	Rod Clay Yellow white		1			27 27
ı	Yellow white	-60	80		60 61 83 67 93	
١	CIAD	. `			A diameter depth (feet)	PUMP INSTALLED
١	SILTY SAND	80	100			DRILLER WILL INSTALL PUMP YES
l	SILTY SAND Fine Signal	100	130		C C	(CIRCLE) (YES or NO) IF DRILLER INSTALLS PUMP, THIS SECTION
	COArse SAN	130	150		z G	MUST BE COMPLETED FOR ALL WELLS EXCEPT HOME USE
	COMISEOM				screen type SCREEN RECORD or open hole	TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O)
۱		-			insert STEEL BRASS OPEN	IN BOX - SEE ABOVE:
1					appropriate BRONZE HOLE	CAPACITY:
-					below / PL OT	GALLONS PER MINUTE (to nearest gallon) 31 35
1					PLASTIC OTHER	PUMP HORSE POWER
	•				<u>C 2</u>	PUMP COLUMN LENGTH
					DEPTH (nearest ft.)	(nearest ft.) CASING HEIGHT (circle appropriate box
					[1 P C [40] [5 9]	and enter casing height)
				1		LAND SURFACE (nearest
					S 23 24 28 30 32 38 38 38 38 38 38 38 38 38 38 38 38 38	below
	CIRCLE APPRO	NDONED A	AND SEA	ALED	E Laboration	LOCATION OF WELL ON LOT
ł	WHEN THIS WELL	WAS CON	MPLETE	D	SLOT SIZE 1 20 2 3	SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND/OR
	E ELECTRIC LOG OF		י פפטפי	ICTION	DIAMETER (NEAREST	N LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES
	TEST WELL CONV				OF SCREEN (SIGN)	(MEASUREMENTS TO WELL)
ſ	HEREBY CERTIFY THAT THIS Y	CRITALINA TWI	-LL CUNO	INCOME	GRAVEL PACK 140 150	
١	AND IN CONFORMANCE WITH ABOVE CAPTIONED PERMIT. AL SENTED HEREIN IS ACCURATE				IF WELL DRILLED WAS	
ı	MY KNOWLEDGE.				FLOWING WELL INSERT FIN BOX 68	RD.
	DRILLERS IDENT. NO.	09	<u> </u>	_	OEP USE ONLY	12:40
	Tim So	und			(NOT TO BE FILLED IN BY DRILLER)	
	DRILLERS SIGNATURE (MUST MATCH SIGNATURE)	IRE ON A	PPI ICAT	ION)	T (E.RO.S.) W Q	A STATE OF THE STA
	(MUST MAICH SIGNATU	JI IL ON A	, , <u>u</u> uni	,	70 72	15 to Dono ret
	OTTE CUIDEDI/ISOD /sic	n of driller	or iour	neyman	TELESCOPE LOG OTHER DATA	
	SITE SUPERVISOR (sign		. ,	mittae1	CASING INDICATOR	in the later and

Use with	_CE-92-0320	WELL ABANI	DONMENT REPORT	r M.	Date 4-27-
ing ways	Permit Number of Abando		•	i 1995	
D'm		hester	LARRY	Z - 17.	- '
11/4	Owner's Name <u>Co</u>	NRAd.	Thom A	<u>s</u> ,	
	Well Location:	/			
	County Coo Subdivision Section Low Nearest Town Maryland Gri	AI Rd Lot 108	<u> </u>		0/5
	Вох	Number E 1080 N 630		X	0/0
	Type of Well	·		Show with	vell location by ain box
	() Drilled () Jetted () Bored or () Other, s	: Augered specify		Log of Seal	ing Material
		_Feet	Ma	aterial	Feet From To
	Type of Casing			toxite Clay	3 40
	Steel () Plastic () Concrete () Other, S	pecify	Com	at plug	3 - 2
•	Size of Casing \angle	Inches		•	
	Was any case removed If Yes amount rem	()Yes (No			
	Was casing ripped or () Yes ()	perforated	. :		
•	Driller Langth	the second	License #	22.5	

•			<u> </u>
8227	SEQUENCE NO.	STATE OF MARYLAND	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
1 2 3	(DENV USE ONLY)	WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY	COUNTY Penlacement
THIS NUMBER IS TO BE N COLS. 3-6 ON ALL CAP	RDS)	PLEASE PRINT OR TYPE	NUMBER REPIREMENT NO.
ST/CO USE ONLY DATE Received	DATE WELL COMPLETE	D Depth of Well	FROM "PERMIT TO DRILL WELL
MAY 1 7 1993	042793	22 / 4 0 28 (TO NEAREST FOOT)	C E - 9 2 - 0 3 2 0 28 29 30 31 32 33 34 35 38 3
WNER CONR		hom AS	
TREET OR RED. / C	bet name wood	All Rd first name TOWN	LOT 108
UBDIVISIONGRE	EN BANK	SECTION GROUTING RECORD	
Not required for	or driven wells	WELL HAS BEEN GROUTED (Circle Appropriate Box)	1 2
STATE THE KIND O PENETRATED, THE	IR COLOR, DEPTH,	TYPE OF GROUTING MATERIAL	HOURS PUMPED (nearest hour)
THICKNESS AND IF	FEET Check	CEMENT CM BENTONITE CLAY BC	PUMPING RATE (gal. per min. / D
dditional sheets if needed	1) FROM TO bearing	NO. OF BAGS 5 NO. OF POUNDS 250 GALLONS OF WATER 25	to nearest gal.)
Top Soil	06	DEPTH OF GROUT SEAL (to nearest foot)	METHOD USED TO MEASURE PUMPING RATE
0.1	6 5	from 6 ft. to 7 5 ft.	WATER LEVEL (distance from land surface) BEFORE PUMPING 55
Jan - 1		(enter 0 if from surface) casing CASING RECORD	17 20
YELLOW CLAY	5. 30	types ST CO	WHEN PUMPING 25
Sand mit Yollow Clay Red Clay	, ,	appropriate STEEL CONCRETE CODE P L OT	TYPE OF PUMP USED (for test) A air P piston T turbine
Red Clat	30 80	below PLASTIC OTHER	27 27
ned twill	ego 110	MAIN Nominal diameter Total depth CASING top (main) casing of main casing	C centrifugal R rotary O other (descril below)
rec 1		CASING top (main) casing of main casing TYPE (nearest inch) (nearest foot)	
	110 130	PL 4 130	jet Submersible
white,		60 81 86 64 66 70 E OTHER CASING (if used)	
CIAT		diameter depth (feet) H inch from to	PUMP INSTALLED
med Five whole Soul	130 140 K	C C	DRILLER WILL INSTALL PUMP YES (NO (CIRCLE) (YES or NO)
white Some	!	S .	IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS
		screen type SCREEN RECORD	EXCEPT HOME USE TYPE OF PUMP INSTALLED
		or open hole ST BR HO	PLACE (A.C.J.P.R.S.T.O) IN BOX - SEE ABOVE:
		(appropriate) STEEL BRASS OPEN BRONZE HOLE	CAPACITY: GALLONS PER MINUTE
		below PLASTIC OTHER	(to nearest gallon)
		C[2]	PUMP HORSE POWER 137 41 PUMP COLUMN LENGTH 1 1
		DEPTH (nearest ft.)	(nearest ft.)
			CASING HEIGHT (circle appropriate box and enter casing height)
		8 9 11 15 17 21	49 LAND SURFACE (nearest
		S 23 24 28 30 32 36	— below — 10 theatest foot)
AT A WELL WAS ABA	OPRIATE LETTER INDONED AND SEALED	R 3 38 39 41 45 47 51	LOCATION OF WELL ON LOT
WHEN THIS WELL	_ WAS COMPLETED	SLOT SIZE 1202 3	A SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND/OR
TEST WELL CON	VERTED TO PRODUCTION		N LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES
P WELL	WELL HAS BEEN CONSTRUCTED II	DIAMETER OF SCREEN (NEAHEST INCH)	(MEASUREMENTS TO WELL)
ACCORDANCE WITH COMAR AND IN CONFORMANCE WITH	28.04.04 WELL CONSTRUCTION ALL CONDITIONS STATED IN THI	GRAVEL PACK 130 1740	old storse
ABOVE CAPTIONED PERMIT, A SENTED HEREIN IS ACCURATE MY KNOWLEDGE.	AND COMPLETE TO THE BEST OF	FLOWING WELL INSERT	
DRILLERSIDENT. NO.	427	F IN BOX 68 68 68	1 * V:
Truthy	W Seunt	(NOT TO BE FILLED IN BY DRILLER)	31
DRILLERS SIGNATURE	RE ON APPLICATION)	T (E.R.O.S.) W Q	& Newwell
Klhul	<u> </u>	70 72 OTHER DATA	920'
SITE SUPERVISOR (sig	n. of driller or journeyman	TELESCOPE LOG OTHER DATA CASING INDICATOR	want All Rand

u some all along the second and a			
80.4/13/93# 85433-MSL	· ·	44.00/1.44/0	STATE PERMIT NUMBER
9 02924 SEQUENCE NO. (DP USE ONLY)	STATE OF I		GE-19121-101312101
THIS NUMBER IS TO BE PUNCHED	please pri		70 fill in this form completely 79
N COLS. 3-6 ON ALL CARDS)	piease pii		
Date Received (APA)	ATION	B 3 1 2	LOCATION OF WELL
0 4 / 3 9 3 OWNER INFORMA	ATION	Cec 16	Repl.
COMPAR. T	40 MAS	8 COUNTY	21
15 Last Name Owner	First Name 34	23 SUBDIVISION	42 4
108 400 R/V RIG	55	SECTION	LOT 108 was all Red
PERCYULKE	か以21703	P4 48 5	170 LJ J
37	State 72 Zip 78	52 NEAREST TOWN	71
DRILLER INFORMATION T Seware	W #27	MILES FROM TOWN (ente	er O if in town) 73 78 77 78
Driller's Name	77 License No. 80	B 4	0.46/ 00
R.J. Seward And Son		DIRECTION OF WELL FROM	11 NEAR WHAT ROAD 30
58 RIAK BIRD ST. RD TOWN	send De. 19734	TOWN (CIRCLE BOX)	NORTH
Address	3/29/93	NW 8 NE	ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
Signature	Date	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WEST S EAST
WELL INFORMATION	/ 	W(TOWN)E	SOUTH
APPROX. PUMPING RATE (GAL. PER MIN.)	0 12		34 20 37
AVERAGE DAILY QUANTITY NEEDED			DISTANCE FROM ROAD ENTER FT or MI
(GAL. PER DAY)	20	8-9	36 39
USE FOR WATER (CIRCLE APPR	OPRIATE BOX)		NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
HOME (SINGLE OR DOUBLE HOUSEH	OLD UNIT ONLY)	Cecil	TICALITY OF THE STATE OF THE ST
F FARMING (LIVESTOCK WATERING & AC	GRICULTURAL	COUNTY NAME	COUNTY NO.
- INDUSTRIAL COMMERCIAL, STATE AN	D FEDERAL GOV.	STATE SIGNATURE	INSERT S
OTHER (REQUIRES APPROPRIATION P PUBLIC OR PRIVATE WATER COMPANY	/ (REQUIRES	DATE ISSUED	0) 0 5 475/04
P APPROPRIATION PERMIT AND STATE I	HEALTH DEPARTMENT	0 4 1 6 9 B 0	O SIGNATURE EXP. DATE
APPROVAL) TEST, OBSERVATION, MONITORING (M	AY REQUIRE	NORTH 63000	EAST II - I A I O VI I - I A
T APPROPRIATION PERMIT)		50	55 57 63
ADDROVIMATE DEBTH OF WELL 199	FEET	SHOW MAJOR FEATUR BOX & LOCATE WELL	
APPROXIMATE DEPTH OF WELL	28	WITH AN X SOURCES OF DRILLING	G WATER
APPROXIMATE DIAMETER OF WELL	NEAREST	1. WEN AT OFF	ice.
		2.	· ·
METHOD OF DRILLING (c	circle one) Jetted & <u>DRIVEN</u>	3.	
DONCO (OI Magailla)	ROTARY (Bydraulic Rotary)	WRITE THE BOX NUMI	
37 CABLE REVerse-ROTary	DRive-POINT	<u> </u>	
<u> </u>		E 1080	
other		N 130	000
REPLACEMENT OR DEEPEN		DRAW A SKETCH BELO	OW SHOWING LOCATION OF WELL IN
(CIRCLE APPROPRIATE BO	•	RELATION TO NEARBY DISTANCE FROM WELL	TOWNS AND ROADS AND GIVE TO NEAREST ROAD JUNCTION
THIS WELL WILL REPLACE A WELL	THAT WILL BE	N	
ABANDONED AND SEALED			7
AS A STANDBY		T /	
D THIS WELL WILL DEEPEN AN EXISTIN		1	,
PERMIT NUMBER OF WELL TO BE REPLA	2584 52		
		-	
Not to be filled in by driller (OEP	USE UNLY)	/ / 5	AN X SITTE AVEL
APPROP. PERMIT NUMBER	GAP	/	21/5
WRITE			
FORCE INITIALS PERMIT No. Q E -	92 - 032 0 73 74 75 78 77 78 79		
SPECIAL CONDITIONS			·

Use with CE-92-0290		TABO CONTRACTOR OFFICE AND THE CONTRACTOR OF THE	e e
Use with CE-92-0290	WELL ABANDONMENT RE	PORT Soll ST AVW	Date <u>4-25-9</u>
O NI Downie Munhar of Mhandoniac	Well (If any) No	14G ALLHUAN	-
Driller's Name Rid	ester Lan	Pirst	
	ler Rox	rald - First	
Well Location: County Ce Subdivision C Section C/wk Nearest Town Maryland Grid	Rd. Lot 46 Charles Town		0/5
Box Nu	unber E /070 N (.30		0/0
Type of Well			ell location by in box
() Drilled () Jetted () Bored or () Other, sp		L⊙g of Seal	ing Material
Depth of Well 95	Feet	Material	Feet To
Type of Casing () Steel () Plastic () Concrete () Other, Sp	pecify	Boutonite Clay Cement Plug.	3- 95
Size of Casing <u>b</u>	Inches	-	
Was any case removed If <u>Yes</u> amount remo			
Was casing ripped or (') Yes ()			
Drilled		cense # <u>235</u>	

(Signature)

c 7771	7771 SEQUENCE NO. (DENV USE ONLY)			STATE OF MARYLAND WELL COMPLETION REPORT	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
1 2 3 (THIS NUMBER IS TO BE F INCOLS. 3-6 ON ALL CAR	UNCHE		,	FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE	COUNTY NUMBER Replacement
CO USE ONLY					PERMIT NO.
DATE Received	DATE W	ELL CO	MPLETE	Depth of Well	FROM "PERMIT TO DRILL WELL
MAY 1 7 1998	15	125	1713	22 7 9 1 28 (TO NEAREST FOOT)	C E - 9 2 - 0 2 9 0 28 29 30 31 32 33 34 35 38 3
ONER Rider	Add nam		Da	first name TOWN C	hackstown
		$\overline{\Delta}$	WC.	SECTION	LOT 46
SEBDIVISION WELL		•		CROLITING RECORD	
Not required for	driven w			WELL HAS BEEN GROUTED	
STATE THE KIND OF PENETRATED, THEIR	FORMAT	TONS	. 1	(Circle Appropriate Box) TYPE OF GROUTING MATERIAL	PUMPING TEST
THICKNESS AND IF	WATER	BEARING	à	CEMENT CM BENTONITE CLAY	HOURS PUMPED (nearest hour)
DESCRIPTION (Use	FE		Check if water	45 46	PUMPING RATE (gal. per min. 1. 5
additional sheets if needed)	1	TO	bearing	NO. OF BAGS NO. OF POUNDS SALLONS OF WATER	to nearest gal.)
PLAY	0	5		DEPTH OF GROUT SEAL (to nearest foot)	METHOD USED TO MEASURE PUMPING RATE
				from 6 ft. to 7 b ft.	WATER LEVEL (distance from land surface)
Red Clay	5	20	·	48 TOP 52 54 BOTTOM 58 (enter 0 if from surface)	BEFORE PUMPING 45
				casing <u>CASING RECORD</u>	WHEN PLIMPING / O &
10/14	20	70		types ST CO	WHEN PUMPING 22 25
Kee Uni	20			(appropriate) STEEL CONCRETE	TYPE OF PUMP USED (for test)
	1			code below PLASTIC OTHER	A ar P piston T turbine
مل الما م	70	120			other
Readon	120			MAIN Nominal diameter Total depth CASING top (main) casing of main casing	C centrifugal R rotary (describe below)
Red Clay Red Clay Red Clay	1			TYPE (nearest inch) (nearest foot)	J jet S submersible
- 1	120	160		PL W JES	jet S submersible
le hite,	/			60 61 63 64 66 70	
CIAG	1	1,		E OTHER CASING (if used) A diameter depth (feet)	PUMP INSTALLED
ned Coarse Sand.		IAD.		inch from to	
med Coarse	150	178		Å	DRILLER WILL INSTALL PUMP YES (NO (CIRCLE) (YES or NO)
Band.		}	'	220	IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS
				screen type SCREEN RECORD	EXCEPT HOME USE
				or open hole ST BR HO	TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O)
				/ Insert STEEL BRASS OPEN	IN BOX - SEE ABOVE: 29
			Ì	appropriate code BRONZE HOLE PL OT	CAPACITY: GALLONS PER MINUTE
				below PLASTIC OTHER	(to nearest gallon)
				C[2]	PUMP HORSE POWER 37 41
				1 2	PUMP COLUMN LENGTH (nearest ft.)
			1.	DEPTH (nearest ft.)	CASING HEIGHT (circle appropriate box
				A B 9 11 15 47 8 21	and enter casing height)
] .		49 LAND SURFACE (nearest
			<u> </u>	S 23 24 26 30 32 36	— below foot)
CIRCLE APPRO	PRIATE L IDONED	ETTER AND SE	ALED	E 3 47 51	. LOCATION OF WELL ON LOT
WHEN THIS WELL	WAS CO	MPLETE	D	N 36 39 41 40 41	A SHOW PERMANENT STRUCTURE SUCH AS
E ELECTRIC LOG OB				SLOT SIZE 1_23	BUILDING, SEPTIC TANKS, AND/OR LANDMARKS AND INDICATE NOT LESS
P WELL CONVI	ERTED T	O PROD	UCTION	DIAMETER (NEAREST INCH)	THAN TWO DISTANCES (MEASUREMENTS TO WELL)
CONTRACTOR TO A THE MAN	ELL HAS BE	EN CONS	TRUCTED IN	56 60	
CORDANCE WITH COMAR 2	6.04.04 "WI M.I. CONDII	DONS STA	TED IN THE	GRAVEL PACK	a lell House
ABOVE CAPTIONED PERMIT, AN SENTED HEREIN IS ACCURATE	IN THAT TH	FINECHM	AIRUN PHE-	IF WELL DRILLED WAS FLOWING WELL INSERT	
MY KNOWLEDGE.	41-	7		FIN BOX 68 68	العرب العرب
PRILLERS IDENT. NO.	100		_	OEP USE ONLY	Ø 35
1 most US	ew			(NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q	\mathbf{i}
DRICLERS SIGNATURE MUST MATCH SIGNATU	RE ON A	PPLICAT	ION)	74 75 78	1 4.
- 4 1h.	2	>		70 72	25 Juck Rd.
SITE SUPERVISOR (sign. of driller or journeyman				TELESCOPE LOG OTHER DATA CASING INDICATOR	75

d. 480. 3/16/93 - 84667-15K	EMERGENCY/TEMP NO. IF ANY		
B 7 7688 SEQUENCE NO. (DP USE ONLY)	STATE OF	MARYLAND	STATE PERMIT NUMBER
1 2 3 (THIS NUMBER IS TO BE PUNCHED	APPLICATION FOR PE	RMIT TO DRILL WELL int or type	d E 92 0290
IN COLS. 3-6 ON ALL CARDS) Date Received (APA)		B 3	LOCATION OF WELL
03/693 OWNER INFORM	ATION	1 2	Repl.
8 13	750	8 COUNTY	21 Rep1.
15 Last Name Owner	First Name 34	Green B 23 SUBDIMSION	
Street or RFD	9 F 55	SECTION SECTION	LOT WILL Y'L CHANGE
SINKING SPRIKE	PH 19608 0 State 72 Zip 76	C#Ar/es	#8 50 万0 山心 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
O DRILLER INFORMATION	ON CIGAL	52 NEAREST TOWN MILES FROM TOWN (ente	r Q if in town) M I
Drillar's Name	77 License No. 80	8 4	
RT Seward And Son		1 2 DIRECTION OF WELL FROM	11 NEAR WHAT ROAD 30
158 Black bird ST. K.	Townsend De	TOWN (CIRCLE BOX)	ндои
Address Mule Sulla	3/8/93	N 8 8 8 8 9	ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
B 2 //WELL INFORMATION	V	W TOWN E	WEST S EAST SOUTH
APPROX. PUMPING RATE (GAL PER MIN.)	0	8	34 6 3 37
AVERAGE DAILY QUANTITY NEEDED	12	S _E	DISTANCE FROM ROAD
(GAL PER DAY)	20	8-9 S 8-9 8	ENTER FT or MI
USE FOR WATER (CIRCLE APPR			NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
HOME (SINGLE OR DOUBLE HOUSEH) FARMING (LIVESTOCK WATERING & AC		Cec	
IRRIGATION)		COUNTY NAME	COUNTY NO.
industrial, commercial, state and other (requires appropriation P	ERMIT)	STATE SIGNATURE DATE ISSUED	INSERT S 41
PUBLIC OR PRIVATE WATER COMPANY P APPROPRIATION PERMIT AND STATE F	(REQUIRES HEALTH DEPARTMENT	d 3 2 4 9 3 (harly E. Smyr 3/24/94
APPROVAL) TEST, OBSERVATION, MONITORING (M		NORTH Z Z Q Q Q	O SIGNATURE EXP. DATE
APPROPRIATION PERMIT)		GRID 50 SHOW MAJOR FEATUR	55 57 63
APPROXIMATE DEPTH OF WELL	FEET 28	BOX & LOCATE WELL . WITH AN X	
APPROXIMATE DIAMETER OF WELL	NEAREST	SOURCES OF DRILLING	WATER CICL
	INCH	2.	
METHOD OF DRILLING (c	circle one) Jetted & DRIVEN	3. WRITE THE BOX NUMB	3FR
30 AIR-ROTary AIR-PERcussion	ROTARY Hydraulic Rotary)	FROM THE MAP HERE	
CABLE REVerse-ROTary	<u>DR</u> ive- <u>POINT</u>	<u> </u>	
other		E 1070	
REPLACEMENT OR DEEPEN	ED WELLS	N 630	000
(CIRCLE APPROPRIATE BO		RELATION TO NEARBY	OW SHOWING LOCATION OF WELL IN TOWNS AND ROADS AND GIVE
N THIS WELL WILL NOT REPLACE AN E	XISTING WELL	DISTANCE FROM WELL	TO NEAREST ROAD JUNCTION
THIS WELL WILL REPLACE A WELL TO ABANDONED AND SEALED		N GHa	senters 14
39 S THIS WELL WILL REPLACE A WELL T AS A STANDBY	THAT WILL BE USED	1	E E
D THIS WELL WILL DEEPEN AN EXISTIN			1800 8
PERMIT NUMBER OF WELL TO BE REPLACE (IF AVAILABLE) 41 2 - 73 - 6	CED OR DEEPENDED 52		IR P
Not to be filled in by driller (OEP	USE ONLY)	318	, / = /
	6 A P 63	3/1	8
FORCE NITIALS PERMIT No. C E	73 74 75 76 77 78 79		
SPECIAL CONDITIONS			•

ABO, 1/1/93#83659-MER =	MERGENCY/TEMP NO. IF ANY		-
7.676 SEQUENCE NO.	STATE OF M	MARYLAND :	STATE PERMIT NUMBER
1 2(THIS NUMBER IS TO BE PUNCHED	APPLICATION FOR PE		C E - 9 2 - 0 1 8 8
IN COLS. 3-6 ON ALL CARDS) Date Received (APA)	please pri	B 3	LOCATION OF WELL
010793 OWNER INFORMA	ATION		D4662
BAY POOUS TRY A	5510978	B COUNTY	21
15 Last Name Owner 216 F POI PSKI	First Name 34	23 SUBDIVISION	
36 Street or RFD	55	SECTION 44 46	LOT #5 0 4662
57 Town 70	State 72 Zip 78	C4A1125	To all
DRILLER INFORMATIO	N (dalal)	52 NEAREST TOWN MILES FROM TOWN (ente	r O if in town)
Driller's Name	77 License No. 80	B 4	73 78 77 78
Firm Name	0.0.4	DIRECTION OF WELL FROM	11 NEAR WHAT ROAD 30
Address Blackby ST. R. Tour	nsent le 19734	TOWN (CIRCLE BOX)	HTROM
Signature Signature	/2/23/92 Date	8 W S S S S S S S S S S S S S S S S S S	ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) (CIRCLE APPROPRIATE BOX) (CIRCLE APPROPRIATE BOX)
WELL INFORMATION		W(TOWN)E	SOUTH
8	12	8	34 10 0 37
AVERAGE DAILY QUANTITY NEEDED (GAL PER DAY)	20		DISTANCE FROM ROAD ENTER FT or MI
USE FOR WATER (CIRCLE APPRO	PRIATE BOX)		NOT TO BE FILLED IN BY DRILLER
HOME (SINGLE OR DOUBLE HOUSEHO		Ceci	HEALTH DEPARTMENT APPROVAL
IRRIGATION)		COUNTY NAME	COUNTY NO.
1 INDUSTRIAL, COMMERCIAL, STATE AND OTHER (REQUIRES APPROPRIATION PE	RMIT)	STATE SIGNATURE DATE ISSUED	INSERT S
PUBLIC OR PRIVATE WATER COMPANY P APPROPRIATION PERMIT AND STATE H	EALTH DEPARTMENT	01 0893	TSIGNATURE EXP. DATE
APPROVAL) T TEST, OBSERVATION, MONITORING (MA	Y REQUIRE	NOOTHERE	0 EAST / 0 8 0 0 0 0
APPROPRIATION PERMIT)		SHOW MAJOR FEATUR	
APPROXIMATE DEPTH OF WELL 24	FEET 28	BOX & LOCATE WELL - WITH AN X	1
APPROXIMATE DIAMETER OF WELL	NEAREST	SOURCES OF DRILLING	WATER FIZE
METHOD OF DRILLING (ci		2.	
BORED (or Augered) BORED (or Augered) JETTED	Jetted & <u>DRIVEN</u>	3. WRITE THE BOX NUMB	ER
30 AIR-ROTary AIR-PERcussion	ROTARY (Hydraulic Rotary)	FROM THE MAP HERE	
<u>CABLE</u> <u>REV</u> erse <u>-ROT</u> ary	DRive-POINT	E 1080	2
other		N 630	8
REPLACEMENT OR DEEPENE (CIRCLE APPROPRIATE BO		DRAW A SKETCH BELO	W SHOWING LOCATION OF WELL IN TOWNS AND ROADS AND GIVE
THIS WELL WILL NOT REPLACE AN EX		DISTANCE FROM WELL	TO NEAREST ROAD JUNCTION
THIS WELL WILL REPLACE A WELL TO ABANDONED AND SEALED		N	CALPENTED PT PL
39 S THIS WELL WILL REPLACE A WELL T		1	8/ 1/1000'
D THIS WELL WILL DEEPEN AN EXISTING PERMIT NUMBER OF WELL TO BE REPLACE			a poje
(IF AVAILABLE) 41	52		1 3 To
Not to be filled in by driller (OEP	USE ONLY)	·	7
APPROP. PERMIT NUMBER	A P 63		NP O
FORCE WRITE INITIALS PERMIT No. CE -	92-0188		
67 68 70 71 72		 	

01 3121 (DE	QUENCE NO. NV USE ONLY)	STATE OF MARYLAND WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED. * COUNTY NI IMPER D4662
(THIS NUMBER IS TO BE PUNCHI IN COLS. 3-6 ON ALL CARDS) ST/CO USE ONLY		PLEASE PRINT OR TYPE	NUMBER PERMIT NO. FROM "PERMIT TO DRILL WEL
DATE Received DATE	WELL COMPLETED 1 2 1 9 3	Depth of Well 22 / G 26 (TO NEAREST FOOT)	C E - 9 2 - 0 1 8 28 29 30 31 32 33 34 35 36
OWNER BAY Co		17 35 cate 17 TOWN C	harles town
SUBDIVISION GREEN	BANK	SECTION	LOT
WELL LOG Not required for driven STATE THE KIND OF FORM	wells	GROUTING RECORD WELL HAS BEEN GROUTED (Circle Appropriate Box)	C 3
PENETRATED, THEIR COLO THICKNESS AND IF WATER	OR, DEPTH, R BEARING	TYPE OF GROUTING MATERIAL CEMENT CM BENTONITE CLAY BO	HOURS PUMPED (nearest hour)
additional sheets if necded) FROM	C Check if water bearing	NO. OF BAGS NO. OF POUNDS NO. OF WATER SOLLONS OF WATER	PUMPING RATE (gal. per min. 15 to nearest gal.) METHOD USED TO
Top Seil	1	DEPTH OF GROUT SEAL (to nearest foot) from ft. to 6 C ft.	MEASURE PUMPING RATE USICKET WATER LEVEL (distance from land surface)
Sand GRACE 8	20	48 TOP 52 54 BOTTOM 58 (enter 0 if from surface) Casing CASING RECORD	BEFORE PUMPING 65 17 20
Soud + White 20	80	types insert appropriate STEEL CONCRETE	WHEN PUMPING LITTLE 25 TYPE OF PUMP USED (for test)
Red 1 CRAY 80	120	code below PLASTIC OTHER	P piston T turbine
White Clay 12	5 1 40	MAIN Nominal diameter Total depth CASING top (main) casing of main casing TYPE (nearest inch) (nearest foot)	C centrifugal R rotary O (describelow)
clay mit 146	156	ि । सा गबला	jet Submersible
		E OTHER CASING (if used)	
med Fine 15	6 166 F	diameter depth (feet) H inch from to	PUMP INSTALLED
med Fine 150 white Sand		CA ST.	DRILLER WILL INSTALL PUMP YES (NO (CIRCLE) (YES or NO) IF DRILLER INSTALLS PUMP, THIS SECTION
		N COPERA DECORD	MUST BE COMPLETED FOR ALL WELLS EXCEPT HOME USE
		screen type or open hole ST BR HO	TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX - SEE ABOVE:
		appropriate code below STEEL BRASS OPEN BRONZE HOLE	CAPACITY: GALLONS PER MINUTE
		PLASTIC OTHER	(to nearest gallon) PUMP HORSE POWER 37 41
		DEPTH (nearest ft.)	PUMP COLUMN LENGTH (nearest ft.) CASING HEIGHT (circle appropriate box
		E 1 1 15 6 17 6 6 17 C 21 C 21 C 21 C 21 C 21 C 21 C 21 C	and enter casing height) LAND SURFACE
		H 2 3 24 26 30 32 36	below (nearest foot)
CIRCLE APPROPRIATE A WELL WAS ABANDONE WHEN THIS WELL WAS C	D AND SEALED	E 3 38 39 41 45 47 51	LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH AS
E ELECTRIC LOG OBTAINED		SLOT SIZE 23 (NEAREST	BUILDING, SEPTIC TANKS, AND/OR N LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES
TEST WELL CONVERTED WELL THEREBY CERTIFY THAT THIS WELL HAS	BEEN CONSTRUCTED IN	OF SCREEN 56 INCH)	(MEASUREMENTS TO WELL) Properly ine
ACCORDANCE WITH COMAR 26.04.04 AND IN CONFORMANCE WITH ALL CON	IDITIONS STATED IN THE	GRAVEL PACK 156 166	#
SENTED HEREIN IS ACCURATE AND COMMY KNOWLEDGE.	PLETE TO THE BEST OF	FLOWING WELL INSERT F IN BOX 68 68	\$ well
DRILLERS IDENT. NO. 4		OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER)	1 1 1 1
DRILLERS SIGNATURE ON (MUST MATCH SIGNATURE ON	I APPLICATION)	T (E.R.O.S.) W Q 74 75 78	House
SITE SUPERVISOR (sign. of dri responsible for sitework if differ	ller or journeyman ent from permittee)	TELESCOPE LOG OTHER DATA CASING INDICATOR	

1-44 7/30/92 #80338-MSP	EMERGENCY/TEMP NO. IF ANY		
7546 SEQUENCE NO. (DP USE ONLY)	STATE OF N APPLICATION FOR PE		STATE PERMIT NUMBER
1 2 3 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)	please prin		[Q E] - [8 8 - [2 6 0 0] ⁷⁰ fill in this form completely ⁷⁹
Date Received (APA)	·	B 3	LOCATION OF WELL
_ 073092 OWNER INFORM	ATION	'elena	PNC
15 Last Name Owner	First Name 34	8 COUNTY	21
15 Last Name Owner 9000000000000000000000000000000000000	PrRA	23 SUBDIVISION	42
36 Street or RFD	4421503	SECTION 44 46.	LOT 48 5 30
	State 72 Zip 76	52 NEAREST TOWN	70 44
DRILLER INFORMATION	y gzal	MILES FROM TOWN (enter	r 0 if in town) 73 76 77 78
Control is Name	77 License No. 80	B 4	CHATTE PANTED
Firm Name	Dursend De 190	DIRECTION OF WELL FROM TOWN (CIRCLE BOX)	11 NEAR WHAT ROAD 30
Address / / Sand	7-13-92		ON WHICH SIDE OF ROAD
Signature WELL INFORMATION	Date	8 NE 8-9	(CIRCLE APPROPRIATE BOX) WEST STEAST
APPROX. PUMPING RATE (GAL. PER MIN.)	arn l	W TOWN E	South
AVERAGE DAILY QUANTITY NEEDED	12		DISTANCE FROM ROAD
(GAL PER DAY)	20		ENTER FT or MI 38 39
USE FOR WATER (CIRCLE APPRO			NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
D HOME (SINGLE OR DOUBLE HOUSEHO	RICULTURAL	Cecil	·
INDUSTRIAL, COMMERCIAL, STATE AND	MARINA FEDERAL GOV.	COUNTY NAME . STATE	COUNTY NO.
26 2 OTHER (REQUIRES APPROPRIATION PE	ERMIT) (REQUIRES	DATE ISSUED	NSERT S 41
P APPROPRIATION PERMIT AND STATE H APPROVAL)		,,	D SIGNATURE EXP. DATE
TEST, OBSERVATION, MONITORING (MA	Y REQUIRE	NORTH 62700	0 EAST / 80000 55 63
APPROXIMATE DEPTH OF WELL 24	FEET	SHOW MAJOR FEATURE BOX & LOCATE WELL _	ES OF
	28	WITH AN X SOURCES, OF DRILLING	WATER
APPROXIMATE DIAMETER OF WELL	NEAREST INCH	1.Well HT OFFI	ic 1
METHOD OF DRILLING (ci	rcle one) Jetted & <u>DRIVEN</u>	3.	
BORED (or Augered) 30 AIR-ROTary AIR-PERcussion	NOTARY (Hydraulic Rotary)	WRITE THE BOX NUMB FROM THE MAP HERE	ER
CABLE REVerse-ROTary	<u>DR</u> ive- <u>POINT</u>	E 1080	¬
other		N 620	
REPLACEMENT OR DEEPENE			W SHOWING LOCATION OF WELL IN
(CIRCLE APPROPRIATE BO) N THIS WELL WILL NOT REPLACE AN EX	, I		TOWNS AND ROADS AND GIVE TO NEAREST ROAD JUNCTION
THIS WELL WILL REPLACE A WELL TO	HAT WILL BE	N	- 00
39 S THIS WELL WILL REPLACE A WELL TO	HAT WILL BE USED	A 297.	spenter pt fel
D THIS WELL WILL DEEPEN AN EXISTING		,	VI
PERMIT NUMBER OF WELL TO BE REPLACE	ED OR DEEPENDED		a / 13
Not to be filled in by driller (OEP to	JSE ONLY)		The state of the s
APPROP. PERMIT NUMBER CE69 G	AP004	517	
FORCE CS INTIALS PERMIT No. CCE -	<u> </u>	7	
67 68 70 71 72	73 74 75 78 77 78 79	_	NTERIM PERMIT
SPECIAL CONDITIONS	•	This permit good unti	Il Public Water and second is available,

C 1 1639 SEQUENCE NO. (DENV USE ONLY)	STATE OF MARYLAND WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)	PLEASE PRINT OR TYPE	NUMBER Repl.Craft Haven PNC PERMIT NO.
DATE RECEIVED OCT X 7 1992 13 DATE WELL COMPLETED 15 DATE WELL COMPLETED 15	Depth of Well 22 77 70 100 100 100 100 100 1	FROM "PERMIT TO DRILL WELL C E - 8 8 - 2 6 0 0 28 29 30 31 32 33 34 35 36 3
OWNER CRAST Have	G first name TOWN	trarlestown
STREET OR RED. 100	SECTION	LOT 54
WELL LOG	GROUTING RECORD no	C 3
Not required for driven wells STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH,	WELL HAS BEEN GROUTED (Circle Appropriate Box) TYPE OF GROUTING MATERIAL	PUMPING TEST HOURS PUMPED (nearest hour)
THICKNESS AND IF WATER BEARING DESCRIPTION (Use FEET Check if water	CEMENT CM BENTONITE CLAY BC	PUMPING RATE (gal. per min.
additional sheets if needed) FROM TO bearing	NO. OF BAGS NO. OF POUNDS 200 GALLONS OF WATER	to nearest gal.)
Top Soil. 0 6	DEPTH OF GROUT SEAL (to nearest foot)	METHOD USED TO MEASURE PUMPING RATE
Sand-Clay 6 10	from 6 ft. to 6 7 ft.	WATER LEVEL (distance from land surface) BEFORE PUMPING 17 20
Red Clay 10 30	casing types insert ST CO	WHEN PUMPING 720 25
Roda White 30 45	appropriate code below PLASTIC OTHER	PE OF PUMP USED (for test) A air P piston T turbine
CLAY 45 60	MAIN Nominal diameter Total depth	C centrifugal R rotary O other (describ
GREAT 13	CASING top (main) casing of main casing TYPE (nearest inch) (nearest foot)	27 27 below) S submersible
WhiteClay 60 67	63 64 66 70	27
med Fine 67 77 4	E OTHER CASING (if used) A diameter depth (feet) H inch from to	PUMP INSTALLED
white	c CA	DRILLER WILL INSTALL PUMP YES NO
Sand.	S Z G	(CIRCLE) (YES or NO) IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS
	screen type SCREEN RECORD	EXCEPT HOME USE TYPE OF PUMP INSTALLED
	or open hole ST BR HO	PLACE (A.C.J.P.R.S.T.O.) IN BOX - SEE ABOVE:
	insert STEEL BRASS OPEN BRONZE HOLE	CAPACITY:
	code below PLASTIC OTHER	GALLONS PER MINUTE 31 35 (to nearest gallon)
	PLASTIC OTHER	PUMP HORSE POWER 37 41
	1 2 DEPTH (nearest ft.)	PUMP COLUMN LENGTH (nearest ft.)
	E 1PL 67 77	CASING HEIGHT (circle appropriate box
	A 8 9 11 15 17 21	and enter casing neight) LAND SURFACE (nearest
	S 23 24 26 30 32 36	below
CIRCLE APPROPRIATE LETTER A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED	R 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LOCATION OF WELL ON LOT A SHOW PERMANENT STRUCTURE SUCH AS
E ELECTRIC LOG OBTAINED	SLOT SIZE 2023	BUILDING, SEPTIC TANKS, AND/OR LANDMARKS AND INDICATE NOT LESS
TEST WELL CONVERTED TO PRODUCTION WELL	DIAMETER (NEAREST OF SCREEN S 1NCH)	THAN TWO DISTANCES (MEASUREMENTS TO WELL)
THEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 28,04.04 "WELL CONSTRUCTION."	from to 22	WAYD KOCA
AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEGGE.	GRAVEL PACK L C2 IF WELL DRILLED WAS FLOWING WELL INSERT	A70' 6
DRILLERS IDENT. NO. 427	F IN BOX 68 66 OFP USE ONLY	
mally of Sund	(NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q	الم ما
DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)	74 75 76	\ \(\tag{\frac{1}{2}}, \(\bar{\bar{\bar{\bar{\bar{\bar{\bar{
SITE SUPERVISOR (sign. of driffer or journeyman	TELESCOPE LOG OTHER DATA	35
responsible for sitework if different from permittee)	CASING INDICATOR	La companya di santa di santa di santa di santa di santa di santa di santa di santa di santa di santa di santa

(d.440.5/8/92#18686-MZR	EMERGENCY/TEMP NO. IF ANY			
6330 SEQUENCE NO.	STATE OF	MARYLAND	STATE PER	RMIT NUMBER
(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)	1	ERMIT TO DRILL WELL int or type	c E - 8	8 - 2 4 4 0 form completely 79
Date Received (APA) Ric HARDS ON	Build	B 3	LOCATION OF W	
050892 OWNER INFORM		120000		D3247
Beaman Ro	601	8 COUNTY	27- 22- 2	, -
15 Last Name Owner	First Name 34	23 SUBDIVISION		03247
Street or RFD	55	SECTION 44 46	LOT 1/2 1	W277
57 Town	70 State 72 Zip 78	52 NEAREST TOWN	TOWN	71
DRILLER INFORMATION	ON WIZIZI	MILES FROM TOWN (ente	er 0 if in town)	78 77 78
Diller's Name	77 License No. 80	B 4		
Firm Name	Duosen & APX	DIRECTION OF WELL FROM TOWN (CIRCLE BOX)	11 NEAR V	VHAT ROAD 30
Address Address	- DWO SEND REIT	1		NORTH N
Signature Sund	3/// Z	8 NE 8-9	ON WHICH SIDE ((CIRCLE APPROP	
WELL INFORMATIO	N	W(TOWN)E		SOUTH
APPROX. PUMPING RATE (GAL. PER MIN.)	8 12		34 3 (O O 37 CE FROM ROAD
AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY)	000			ENTER FT or MI 38 39
USE FOR WATER (CIRCLE APPR	ROPRIATE BOX)		NOT TO BE FILLED IN HEALTH DEPARTMEN	BY DRILLER
HOME (SINGLE OR DOUBLE HOUSE) FARMING (LIVESTOCK WATERING & A		Cecil	TICACITIDE! ATTIMEN	
IRRIGATION)		COUNTY NAME		COUNTY NO.
INDUSTRIAL, COMMERCIAL, STATE AN OTHER (REQUIRES APPROPRIATION	PERMIT)	STATE SIGNATURE DATE ISSUED	21 - 50	INSERT S
PUBLIC OR PRIVATE WATER COMPAN P APPROPRIATION PERMIT AND STATE	HEALTH DEPARTMENT	051192	O SIGNATURE	11/11/S EXP. DATE
APPROVAL) T TEST, OBSERVATION, MONITORING (MATERIAL PROPRIATION PERMIT)	MAY REQUIRE	NORTH 62900	EAST CIT	78000
APPROPRIATION PERMIT)		SHOW MAJOR FEATUR	55 5/ ES OF	
APPROXIMATE DEPTH OF WELL 24	FEET 28	BOX & LOCATE WELL . WITH AN X		بل.
4	NEAREST	SOURCES OF DRILLING	G WATER ≥∠.	
APPROXIMATE DIAMETER OF WELL	INCH	2.		•
METHOD OF DRILLING (BORED (or Augered) JETTED	Jetted & <u>DRIVEN</u>	3. WRITE THE BOX NUMB	BER .	
30 AIR-ROTary AIR-PERcussion	HOTARY Hydraulic Rotary)	FROM THE MAP HERE		•
CABLE REVerse-ROTary	<u>DR</u> ive- <u>POINT</u>	E 1020		
other		N 620	000	
REPLACEMENT OR DEEPEN (CIRCLE APPROPRIATE B		DRAW A SKETCH BELC	OW SHOWING LOCATION	N OF WELL IN
THIS WELL WILL NOT REPLACE AN	EXISTING WELL	DISTANCE FROM WELL	TO NEAREST ROAD J	UNCTION
THIS WELL WILL REPLACE A WELL ABANDONED AND SEALED		N		
39 S THIS WELL WILL REPLACE A WELL AS A STANDBY	THAT WILL BE USED	↑	3/2	
D THIS WELL WILL DEEPEN AN EXISTI			PARTE	r FOR
PERMIT NUMBER OF WELL TO BE REPLA	ACED OR DEEPENDED)	,
Not to be filled in by driller (OEF	P USE ONLY)	┥ '	/~	
	GAP	site -		
WRITE STRUCK	63		13.6	
FORCE INITIALS PERMIT No. C E - 70 71 72	- 8 8 - 2 4 4 0 2 73 74 75 78 77 78 79			<u>.</u>
SPECIAL CONDITIONS				

c1 1294		JENCE USE O	- 1	STATE OF MARYLAND	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.		
1 2 3 8 (THIS NUMBER IS TO BE F IN COLS. 3-6 ON ALL CAR	PUNCHED			WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE	COUNTY NUMBER D3247		
ST/CO USE ONLY					PERMIT NO.		
DATE Received	DATE W		MPLETE	 	FROM "PERMIT TO DRILL WELL		
JUL 1 5 1992	کلي	112	92	22 Z (d	C E - 8 8 - 2 4 4 0 28 29 30 31 32 33 34 35 36 3		
(1)	13		X or		Resp BHI		
OWNER Vocano	last name	e	-/OF	first name	harles town		
STREET OR RFD		Ra	_ <u>`</u>	FREM'S SECTIONTOWN_C	LOT 12		
COBDITION		122	~~				
WELL Not required for		ells		GROUTING RECORD WES NO WELL HAS BEEN GROUTED	C 3		
STATE THE KIND OF				WELL HAS BEEN GROUTED (Circle Appropriate Box)	1 2 PUMPING TEST		
PENETRATED, THEIR	COLOR	DEPTH	l ,	TYPE OF GROUTING MATERIAL			
THICKNESS AND IF DESCRIPTION (Use	WATER E		Check	CEMENT CM BENTONITE CLAY BC	HOURS PUMPED (nearest hour)		
additional sheets if needed)		то	if water bearing	NO. OF BAGS 3 NO. OF POUNDS 150	PUMPING RATE (gal. per min.		
		81		GALLONS OF WATER	to nearest gal.) METHOD USED TO		
0143+E11	0	0		DEPTH OF GROUT SEAL (to nearest foot)	MEASURE PUMPING RATE		
Clay+Fill YELLOW Clay		·		from ft. to A ft.	WATER LEVEL (distance from land surface)		
UFILAD CLAY	81	15		48 TOP 52 54 BOTTOM 58 (enter 0 if from surface)	BEFORE PUMPING 45		
7/1000 1	-			casing CASING RECORD	17 20		
6101	15	40		types ET CO	WHEN PUMPING 105		
Red Clay	1'3			(insert) STEEL CONCRETE	TYPE OF PUMP USED (for test)		
				code	Agir P piston T turbine		
Red + White	40	80		below PLASTIC OTHER	27 10101111		
]				O other		
Clay		j		MAIN Nominal diameter Total depth CASING top (main) casing of main casing	C centrifugal R rotary O (describe below)		
دمام در	80	100	-	TYPE (nearest inch) (nearest foot)	<u></u>		
GRAY CLAY	100	`	ľ	QL M MIGH	J jet S submersible		
	1		1	60 61 63 64 66 70	<u> </u>		
white ClAY	100	116		OTHER CASING (if used)			
				diameter depth (feet) H inch from to	PUMP INSTALLED		
med Fine		126	×	c	DRILLER WILL INSTALL PUMP YES NO		
white,	116	'	"	[(CIRCLE) (YES or NO)		
marie]		IF DRILLER INSTALLS PUMP, THIS SECTION		
Sanc.		1		screen type SCREEN RECORD	MUST BE COMPLETED FOR ALL WELLS EXCEPT HOME USE		
		1		or open hole	TYPE OF PUMP INSTALLED		
				insert ST BR HO	PLACE (A,C,J,P,R,S,T,O) IN BOX - SEE ABOVE:		
l				(appropriate) STEEL BRASS OPEN BRONZE HOLE	CAPACITY:		
				code below PL OT	GALLONS PER MINUTE		
1				PLASTIC OTHER	(to nearest gallon)		
				C 2	37 41		
				DEPTH (nearest ft.)	PUMP COLUMN LENGTH (nearest ft.)		
	1				CASING HEIGHT (circle appropriate box		
	1			E 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	and enter casing height)		
					49 LAND SURFACE		
			1	s 2 23 24 26 30 32 36	_ below (nearest foot)		
CIRCLE APPROP					49 50 51		
A A WELL WAS ABANG	OONED A	ND SEA	LED	E 3	LOCATION OF WELL ON LOT		
WHEN THIS WELL V		irle i El	,	N 30 30 41	A SHOW PERMANENT STRUCTURE SUCH AS		
E ELECTRIC LOG OBT				SLOT SIZE 12023	BUILDING; SEPTIC TANKS, AND/OR LANDMARKS AND INDICATE NOT LESS		
TEST WELL CONVE	RTED TO	PRODU	ICTION	DIAMETER (NEAREST INCH)	THAN TWO DISTANCES		
WELL THEREBY CERTIFY THAT THIS WE	LL HAS BEF	N CONST	RUCTED IN	56 60	(MEASUREMENTS TO WELL)		
I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE CRAVEL BACK.				1 110 17 (0)			
AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF			TION PRE-	IF WELL DRILLED WAS	¥20'		
MY KNOWLEDGE.				FLOWING WELL INSERT	ا <u>ح</u>		
DRILLEBS IDENT. NO.	421		7,	F IN BOX 68 68			
DRILLENS IDENT. NO. L		(/	_	OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER)	3>		
DDILLEDS SICKATION)	nd		T (E.R.O.S.) W Q			
DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)			ON)	74 75 76	(1 House)		
201				70 72			
SITE SUPERVISOR (sign.	of driller	or journe	evman	TELESCOPE LOG - OTHER DATA			
responsible for sitework if	different	from per	mittee)	CASING INDICATOR			

	·	·		
c 1293 SEQUENCE NO. (DENV USE ONLY)	STATE OF MARYLAND	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.		
1 2 3 (THIS NUMBER IS TO BE PUNCHED	WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE	COUNTY NUMBER D3305		
in COLS. 3-6 ON ALL CARDS)		PERMIT NO.		
DE Received DATE WELL COMPLETED	Depth of Well	FROM "PERMIT TO DRILL WELL		
DCT x 7 1992 G85592	22 1 2 1 2 26 (TO NEAREST FOOT)	C E - 8 8 - 2 4 3 9 28 29 30 31 32 33 34 35 36 3		
ONER Paceos	500			
STREET OR RFD (CHANGE) BAND	first name TOWN	hooles Jours		
SHBDIVISION COERS ISANY	FEQ. SECTION_	LOT Z		
WELL LOG Not required for driven wells	WELL HAS BEEN GROUTED (Circle Appropriate Box)	<u>C 3</u>		
STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH,	(Circle Appropriate Box) TYPE OF GROUTING MATERIAL	PUMPING TEST		
THICKNESS AND IF WATER BEARING	CEMENT CM BENTONITE CLAY BC	HOURS PUMPED (nearest hour)		
DESCRIPTION (Use FEET Check additional sheets if needed) FROM TO bearing	NO. OF BAGS NO. OF POUNDS 200	PUMPING RATE (gal. per min. 11) 15		
0106	GALLONS OF WATER	* METHOD-USED TO		
Top Soil	DEPTH OF GROUT SEAL (to nearest foot) from (1) ft. to (1) ft.	MEASURE PUMPING RATE LOCK WATER LEVEL (distance from land surface)		
6 15	from 6 ft. to 6 ft. to 6 ft. 10 ft. 1	BEFORE PUMPING		
and mix	casing CASING RECORD	17 20		
15 60	types ST CO	WHEN PUMPING 122 25		
Ked CIAY	(appropriate) STEEL CONCRETE CODE	PYRE OF PUMP USED (for test)		
- 12 Wite 60 90	below PLASTIC OTHER	P piston T turbine		
-Clay	MAIN Nominal diameter Total depth CASING top (main) casing of main casing	C centrifugal R rotary Other (describe below)		
10 hite 90 117	TYPE (nearest inch) (nearest foot)	J jet S submersible		
White 10 111	60 61 63 64 66 70	27 21		
I CLAY	E OTHER CASING (if used) C diameter depth (feet) H inch from to	PUMP INSTALLED		
-med Fine 117 127 /	c l	DRILLER WILL INSTALL PUMP YES NO		
white		(CIRCLE) (YES or NO) IF DRILLER INSTALLS PUMP, THIS SECTION		
Sara	G	MUST BE COMPLETED FOR ALL WELLS EXCEPT HOME USE		
	screen type or open hole ST BR HO	TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O)		
	appropriate STEEL BRASS OPEN	IN BOX - SEE ABOVE:		
_ · · · · ·	Code BRONZE HOLE	CAPACITY: GALLONS PER MINUTE 31 35		
	below PLASTIC OTHER	(to nearest gallon) PUMP HORSE POWER		
	C 2	PUMP COLUMN LENGTH 37 41		
	DEPTH (nearest ft.)	(nearest ft.) A3 43 47 A7 A7 A8 A8 A8 A8 A8 A8 A8 A		
		and enter casing height)		
		LAND SURFACE (nearest		
CIRCLE APPROPRIATE LETTER	S 23 24 26 30 32 38 36 A	below		
A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED	E 3 4 4 45 47 51	LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH AS		
E ELECTRIC LOG OBTAINED	SLOT SIZE 23	BUILDING, SEPTIC TANKS, AND/OR N LANDMARKS AND INDICATE NOT LESS		
TEST WELL CONVERTED TO PRODUCTION WELL	DIAMETER OF SCREEN (NEAREST INCH)	THAN TWO DISTANCES (MEASUREMENTS TO WELL)		
EREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN CORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" ID IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE	GRAVEL BACK 1/1/2 11/27	" House		
ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRE- SENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF	IF WELL DRILLED WAS	Hone		
MY KNOWLEDGE.	FLOWING WELL INSERT F IN BOX 68 68			
RILLERS IDENT. NO.	OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER)	<u> </u>		
DRILLERS SIGNATURE	T (E.R.O.S.) W Q	45		
MUST MATCH SIGNATURE ON APPLICATION)	74 75 78	of .		
SITE SUPERVISOR (sign. of driller or journeyman	TELESCOPE LOG OTHER DATA	W60 ar of		
SITE SUPERVISOR (sign, or driller or journeyman	CASING INDICATOR	TOPPHILLER VIVE		

2.440,5/8/92 #78686-M5R	EMERGENCY/TEMP NO. IF ANY			 	
B 1 3440 SEQUENCE NO. (OP USE ONLY)		MARYLAND	SI	TATE PERMIT NUMBE	R
1 2 3 8 TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)		RMIT TO DRILL WELL int or type	☐ E 70 fill	in this form comp	1 3 9 letely ⁷⁹
Date Received (APA)		B 3	LOCATION	OF WELL	
050892 OWNER INFORM	ATION	12 Cec7K		D:	3305
। वितववत्रा । । । । । । । । । । । । । । । । । । ।	an I	8 COUNTY		21	
15 Last Flame Owner	First Name 34	23 SUBDIVISION	NK FR	1/45	42
36 Street or RFD	555	SECTION TO	LOT 5	<u> </u>	35
2 e u e 45 7/ e 17	0 e 1 9 7 2 0 0 State 72 Zip 76	@HA1175	7062	50	
DRILLER INFORMATIO	ON	52 NEAREST TOWN MILES FROM TOWN (ente	r C if in town)	MI	7 " "
Driller's Name	77 License No. 80			73 78 77 78	-
RJ S-wall And Son		1 2 DIRECTION OF WELL FROM	Gree		9
158 Blackbird & ROTOLY	send De 19734	TOWN (CIRCLE BOX)	11	NEAR WHAT ROAD	NORTH 2
Address J. Sand	5/2/92	N N N N N N N N N N N N N N N N N N N		CH SIDE OF ROAD APPROPRIATE BOX)	
Signature B 2 WELL INFORMATION		W TOWN E			WEST SEAST
APPROX. PUMPING RATE (GAL. PER MIN.)	10		·	34 560 37	
AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY)	12 12 20	S S S S		DISTANCE FROM ROA	.D [
USE FOR WATER (CIRCLE APPR	OPRIATE BOX)			LLED IN BY DRILLE	
DOME (SINGLE OR DOUBLE HOUSEH	OLD UNIT ONLY)		HEALTH DEPA	RTMENT APPROVA	L
F FARMING (LIVESTOCK WATERING & AC	GRICULTURAL	Cecil		COUNT	Y NO.
INDUSTRIAL COMMERCIAL STATE AN	D FEDERAL GOV.	STATE SIGNATURE		INSERT	$_{\rm s}$ \Box $^{\rm l}$
PUBLIC OR PRIVATE WATER COMPANY	(REQUIRES	DATE ISSUED	71 0	7	41
P APPROPRIATION PERMIT AND STATE P	HEALTH DEPARTMENT	0 5 1 1 9 2 6	SIGNATURE	C. Junga	EXP. DATE
TEST, OBSERVATION, MONITORING (MAPPROPRIATION PERMIT)	AY REQUIRE	NORTH 62900 50	0 EAST GRID	107800	63
APPROXIMATE DEPTH OF WELL	FEET	SHOW MAJOR FEATURE BOX & LOCATE WELL - WITH AN X	ES OF		7
	28	SOURCES OF DRILLING			1
APPROXIMATE DIAMETER OF WELL	NEAREST INCH	1. WCH PATOFF.	28		. (
METHOD OF DRILLING (c		3.			
BORED (or Augered) JETTED 30 Year Communication ALP SERviceira	Jetted & <u>DRIVEN</u> ROTARY (Hydraulic Rotary)	WRITE THE BOX NUMB	SER		1
37 AIR-ROTary AIR-PERcussion CABLE REVerse-ROTary	DRive-POINT	THOM THE MAT THE			'
		E 1070)		
other	50 W5110	N 620			
REPLACEMENT OR DEEPENI (CIRCLE APPROPRIATE BO		DRAW A SKETCH BELO RELATION TO NEARBY	W SHOWING L	OCATION OF WELL	IN .
N THIS WELL WILL NOT REPLACE AN E		DISTANCE FROM WELL	TO NEAREST	ROADS AND GIVE	
THIS WELL WILL REPLACE A WELL THE ABANDONED AND SEALED	THAT WILL BE	N X			÷
39 THIS WELL WILL REPLACE A WELL	THAT WILL BE USED	★	<u> </u>	. 1	
AS A STANDBY D THIS WELL WILL DEEPEN AN EXISTIN	IG WELL		CAIRENT	er PT Rd	· -
PERMIT NUMBER OF WELL TO BE REPLA	CED OR DEEPENDED		احم		
(IF AVAILABLE) 41	52	<u> </u>	[]		
Not to be filled in by driller (OEP	USE ONLY)		2/		
APPROP. PERMIT NUMBER 54	63 A P 63		BALL	-* 255°,	
FORCE WRITE INITIALS PERMIT No. Q E - 70 71 72	88-2439		CT		
SPECIAL CONDITIONS				•	

OBIGINIA!

SEQUENCE NO. (DENV USE ONLY) HIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)	STATE OF MARYLAND WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED. COUNTY \$/45-67 NUMBER Repl. Cistern
ST/CO USE ONLY TE Received DATE WELL COMPLETE O 9 / 7 9 2 15 20	22 / 2 P 28 (TO NEAREST FOOT)	PERMIT NO. FROM "PERMIT TO DRILL WELL C E - 8 8 - 2 3 6 7 28 29 30 31 32 33 34 35 36 3
REFET OR RED 7 both national very veen.	STUTENCOSINSTRAME TOWN_	PA
SUBDIVISION Green bank	SECTIONTOWN	LOT 132 wood MAS
WELL LOG Not required for driven wells STATE THE KIND OF FORMATIONS	GROUTING RECORD WELL HAS BEEN GROUTED (Circle Appropriate Box)	C 3
PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING	TYPE OF GROUTING MATERIAL	PUMPING TEST HOURS PUMPED (nearest hour)
SCRIPTION (Use FEET Check if water bearing	CEMENT CM BENTONITE CLAY 65 46 NO. OF BAGS NO. OF POUNDS 2 45	PUMPING RATE (gal. per min. 20 1 11 15
P/A, SILT 6" 2"	GALLONS OF WATER	METHOD USED TO MEASURE PUMPING RATE WATER LEVEL (distance from land surface)
5And Gravel 2' 40	48 TOP 52 54 BOTTOM 58 (enter 0 if from surface) Casing CASING RECORD	BEFORE PUMPING 17 20
Red C/Ay 40 80	types insert appropriate STEEL CONCRETE	WHEN PUMPING 22 25 TYPE OF PUMP USED (for test)
FINE SHY SHOW 100 120	code below PLASTIC OTHER	P piston T turbine
Fine Spand 90 100 Fine Spand 90 100 Fine Spand 100 120 STRingers COMSE Spand 120 129	MAIN Nominal diameter Total depth CASING top (main) casing of main casing TYPE (nearest inch) (nearest foot)	C centrifugal R rotary Other (describble)
	P Z	jet S submersible
	C OTHER CASING (if used) C diameter depth (feet) H inch from to	PUMP INSTALLED
	C C S S S S S S S S S S S S S S S S S S	DRILLER WILL INSTALL PUMP YES (CIRCLE) (YES or NO)
	screen type SCREEN RECORD	IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS EXCEPT HOME USE TYPE OF CHARLES INSTALLED
	or open hole ST BR HO STEEL BRASS OPEN BRASS OPEN	TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX - SEE ABOVE: CAPACITY: 29
	code below PLASTIC OTHER	GALLONS PER MINUTE (to nearest gallon)
	C 2 DEPTH (nearest ft.)	PUMP HORSE POWER PUMP COLUMN LENGTH (nearest ft.)
	E 1 P L 11 9 15 17 29 21	CASING-HEIGHT (circle appropriate box and enter casing height)
	H 2 2 30 36 36 36	LAND SURFACE
A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED	R 3 41 45 47 51	LOCATION OF WELL ON LOT A SHOW PERMANENT STRUCTURE SUCH AS
E ELECTRIC LOG OBTAINED TEST WELL CONVERTED TO PRODUCTION WELL	SLOT SIZE 1 202 3 (NEAREST OF SCREEN INCH)	BUILDING, SEPTIC TANKS, AND/OR N LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES
THEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN	56 60 fmm to	(MEASUREMENTS TO WELL)
ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" IND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE BOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRE- ENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEGGE.	GRAVEL PACK 1/5 129 IF WELL DRILLED WAS FLOWING WELL INSERT	use
DRILLERS IDENT. NO. 477	F IN BOX 68 68 OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER)	13/00/15
DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)	T (E.R.O.S.) W Q	The second
SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)	TELESCOPE LOG OTHER DATA CASING INDICATOR	40%
respondible for sitement if different from permitted)	ORIGINAL	

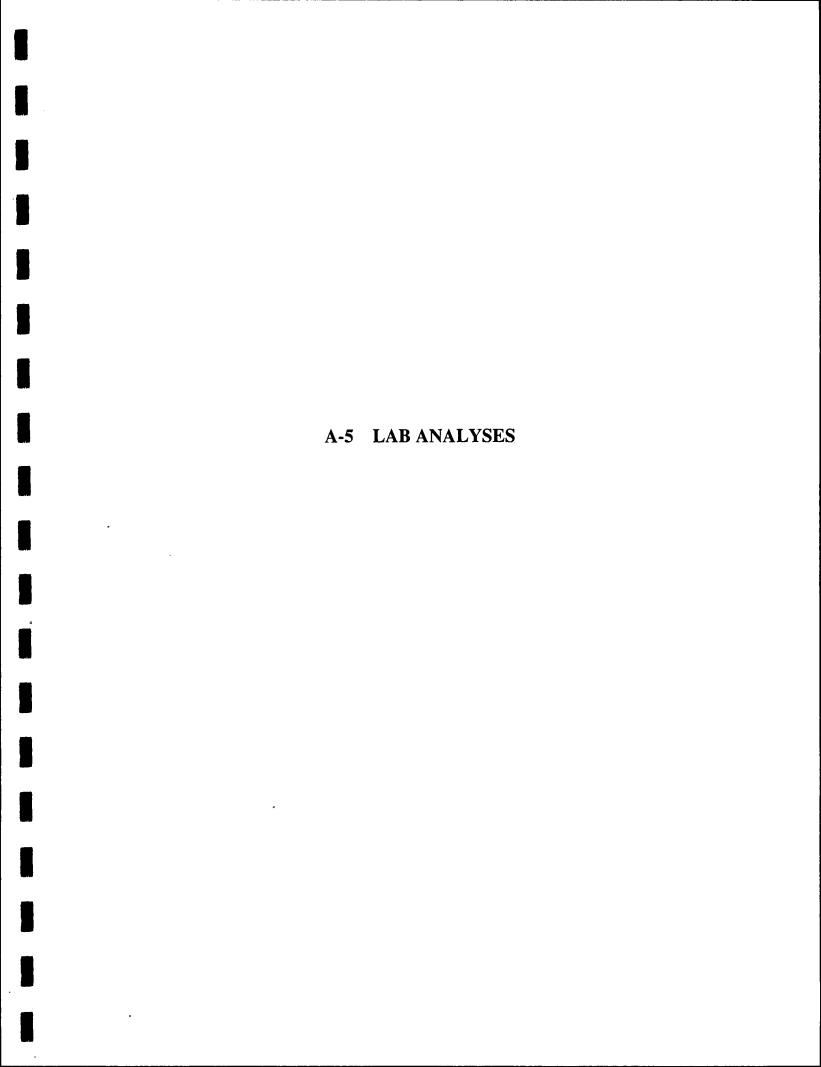
63/3 SEQUENCE NO.	STATE OF I	MARYLAND	STATE PERMIT NUMBER
(THIS NUMBER IS TO BE PUNCHED	APPLICATION FOR PE		C E - 8 8 - 2 3 6 7
IN COLS. 3-6 ON ALL CARDS) Date Received (APA)	168-8133	B 3	LOCATION OF WELL 8/45-67
030692 OWNER INFORM		12	Repl.Cistern
GUEFOR RAIPH	-Dr6014	8 COUNTY	21
15 Last Name Owner	First Name 34	23 SUBDIVISION	137 woold Ros.
Street or RFD	0213020	SECTION 44 46	LOT 48 50
57 Town	0 State 72 Zip 76	52 NEAREST TOWN	TOWM
DRILLER INFORMATI	ON WITH	MILES FROM TOWN (ente	er 0 if in town) 3 M 1
Driller's Name	77 License No. 80	B 4	(1200) all (20)
Firm Name	aursand D. 18734	DIRECTION OF WELL FROM TOWN (CIRCLE BOX)	11 NEAR WHAT ROAD 30
Address To Comments of the Address To Comments o	(L) Nova A.E. (V.)	N B NE	ON WHICH SIDE OF ROAD NORTH
Signature	Date	W E S	(CIRCLE APPROPRIATE BOX) WEST S PST
B 2 WELL INFORMATION APPROX. PUMPING RATE (GAL. PER MIN.)	N ZIATITI	TOWN E	SOUTH
APPROX. PUMPING HATE (GAL. PER WIN.) AVERAGE DAILY QUANTITY NEEDED	6 12		34 / G 37 DISTANCE FROM ROAD
(GAL PER DAY)		S S	ENTER FT or MI 38 39
USE FOR WATER (CIRCLE APPR			NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
HOME (SINGLE OR DOUBLE HOUSE) FARMING (LIVESTOCK WATERING & A	HOLD UNIT ONLY) NGRICULTURAL	Cecil	
IRRIGATION) INDUSTRIAL, COMMERCIAL, STATE AN		COUNTY NAME STATE	ÇOUNTY NO.
OTHER (REQUIRES APPROPRIATION PUBLIC OR PRIVATE WATER COMPAN	PERMIT)	SIGNATURE	NI OCC INSERTS
P APPROPRIATION PERMIT AND STATE	HEALTH DEPARTMENT	<u> d 4 0 2 9 2 1</u>	CO SIGNATURE EXP. DATE
T TEST, OBSERVATION, MONITORING (MAPPROPRIATION PERMIT)	MAY REQUIRE	NORTH 6290 C	55 57 63
APPROXIMATE DEPTH OF WELL	FEET 28	SHOW MAJOR FEATUR BOX & LOCATE WELL WITH AN X	
APPROXIMATE DIAMETER OF WELL	NEAREST INCH	SOURCES OF DRILLIN 1. WELL HT OFFI 2.	IG WATER
METHOD OF DRILLING	(circle one) Jetted & DRIVEN	3.	
BORED (or Augered) 30 AIR-ROTary AIR-PERcussion	ROTABY (Hydraulic Rotary)	WRITE THE BOX NUM FROM THE MAP HERE	
CABLE REVerse-ROTary	DRive-POINT	F 100 90	<u> </u>
other		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	000
REPLACEMENT OR DEEPEL		DRAW A SKETCH BEL	OW SHOWING LOCATION OF WELL IN
(CIRCLE APPROPRIATE E		RELATION TO NEARBY	TOWNS AND ROADS AND GIVE L TO NEAREST ROAD JUNCTION
THIS WELL WILL REPLACE A WELL ABANDONED AND SEALED	THAT WILL BE	N	
39 S THIS WELL WILL REPLACE A WELL AS A STANDBY	THAT WILL BE USED	 	×
D THIS WELL WILL DEEPEN AN EXIST			Z
PERMIT NUMBER OF WELL TO BE REPL	ACED OR DEEPENDED		* *5 Ke
Not to be filled in by driller (OE	P USE ONLY)		2/1/20
APPROP. PERMIT NUMBER 54	G A P 63		green BANK RO
FORCE WRITE INTIALS PERMIT No. CE-	- 8 8 - 2 3 6 7 72 73 74 75 76 77 78 79		
'AL CONDITIONS			·
		IGINAL	The state of the s

9-1 - 2370 SEQUENCE NO.	STATE OF M	MARYLAND	STATE PERMIT NUMBER
(THIS NUMBER IS TO BE PUNCHED	APPLICATION FOR PEI		CE 88 2 3 5 9
IN COLS. 3-6 ON ALL CARDS) Date Received (APA) Pd F40.3/23/9.	•	B 3	
Date Received (AFA) / 2 1 70 3) 23 77 1	1	BCOUNTY	LOCATION OF WELL D3155
15 Last Name Owner 5 9 2 MT H L L A Street or RFD	First Name 34	23 SUBDIVISION SECTION	LOT - 42
PERRYVILLE	9 D 2 1 9 0 3 State 72 Zd 76	PERRYV I 52 NEAREST TOWN	48 50 L L E 71
DRILYER INFORMATION CHARLES H. / AMILTO Driller's Name	onkilla	MILES FROM TOWN (enter	r 0 if in town) 1 M I 73 78 77 78
JONES & HAMILTO	N . / O	DIRECTION OF WELL FROM TOWN (CIRCLE BOX)	NEAR WHAT ROAD 30
Address harles Id. Ham il	Etw / 3/19/92	N NE S	ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
B 2 WELL INFORMATION APPROX. PUMPING RATE (GAL. PER MIN.)		W TOWN E	WEST SEAST SOUTH
AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY)	12	S _W S S _E 8-9	34 80 37 DISTANCE FROM ROAD ENTER FT or MI
USE FOR WATER (CIRCLE APPRO	OPRIATE BOX)		NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
HOME (SINGLE OR DOUBLE HOUSEHO F FARMING (LIVESTOCK WATERING & AG IRRIGATION)		Cecil	COUNTY NO.
INDUSTRIAL, COMMERCIAL, STATE AND OTHER (REQUIRES APPROPRIATION PER	ERMIT)	STATE SIGNATURE DATE ISSUED /	INSERT S
PUBLIC OR PRIVATE WATER COMPANY APPROPRIATION PERMIT AND STATE H APPROVAL)	EALTH DEPARTMENT	032692	SIGNATURE EXP. DATE
TEST, OBSERVATION, MONITORING (MA	AY REQUIRE	NORTH 63400	GRID / 8 17 3 0 0 0 5 63
APPROXIMATE DEPTH OF WELL 24	FEET 28	SHOW MAJOR FEATURE BOX & LOCATE WELL _ WITH AN X SOURCES OF DRILLING	
APPROXIMATE DIAMETER OF WELL	NEAREST INCH	1. 2.	×
METHOD OF DRILLING (ci		3.	·
37	Jetted & <u>DRIVEN</u> <u>ROTARY</u> (Hydraulic Rotary) <u>DRive-POINT</u>	WRITE THE BOX NUMB FROM THE MAP HERE	ER
CABLE REVerse-HOTary other	<u> </u>	E 1070	
REPLACEMENT OR DEEPENE (CIRCLE APPROPRIATE BO	•	DRAW A SKETCH BELO	W SHOWING LOCATION OF WELL IN TOWNS AND ROADS AND GIVE
THIS WELL WILL NOT REPLACE AN EXTENSION THIS WELL WILL REPLACE A WELL TO ABANDONED AND SEALED	HAT WILL BE	DISTANCE FROM WELL	TO NEAREST ROAD JUNCTION
39 S THIS WELL WILL REPLACE A WELL T AS A STANDBY D THIS WELL WILL DEEPEN AN EXISTIN			1
PERMIT NUMBER OF WELL TO BE REPLAC			ND Rt 3 xwell site
Not to be filled in by driller (OEP	USE ONLY)	_	
APPROP. PERMIT NUMBER G	A P 63		P. R.R.
FORCE HITTALS PERMIT No. C E - 70 71 72	88 - 2359	Indem	7
SPECIAL CONDITIONS			

		The second secon	
C1 1212	SEQUENCE NO. (DENV USE ONLY)	STATE OF MARYLAND WELL COMPLETION REPORT	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
1 2 3 6 (THIS NUMBER IS TO BE P IN COLS: 3-6 ON ALL CARI	UNCHED	FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE	COUNTY NUMBER D3155
ST/CO USE ONLY		D 1) -()4/-1/	PERMIT NO.
DATE Received	DATE WELL COMPLETE		FROM "PERMIT TO DRILL WEL
MAY x 4 1982	050192	22 <u> </u>	<u> C E </u>
8 13	15 20 Al		
OWNER	last name Fa 2	TAMES first name TOWN	DERALL :UE Md 21013
STREET OR RFD	last name 592	I). Fill Ray	PERRYVILLE, Md. 21903
SUBDIVISION		SECTION	LOT
WELL I		GROUTING RECORD WELL HAS BEEN GROUTED	C 3
Not required for STATE THE KIND OF		WELL HAS BEEN GROUTED (Circle Appropriate Box)	1 2
PENETRATED, THEIR	R COLOR, DEPTH,	TYPE OF GROUTING MATERIAL	PUMPING TEST
THICKNESS AND IF		CEMENT (CM) BENTONITE CLAY BC	HOURS PUMPED (nearest hour)
DESCRIPTION (Use additional sheets if needed)	FEET Check if water bearing	45.46	PUMPING RATE (gal. per min.
additional sheets in needed)	THOW IO Scaling	NO. OF BAGS 23 NO. OF POUNDS 2632 GALLONS OF WATER 140	to nearest gal.)
BROWN		DEPTH OF GROUT SEAL (to nearest foot)	METHOD USED TO BUCKET + WATCH
1		from 0 ft. to // / 0 ft.	WATER LEVEL (distance from land surface)
SAND +		48 TOP 52 54 BOTTOM 58	BEFORE PUMPING 95
GRAVEL	0 50	(enter 0 if from surface) casing CASING RECORD	17 20
DICHUCL			WHEN PUMPING 470
		/ insert \ SI CO	22 25
			TYPE OF PUMP USED (for test)
		below / PL UI	
YELLOW CLAY	50 85		27 27 27 other
YELLOW CLAY		MAIN Nominal diameter Total depth	C centrifugal R rotary O (describe
/		CASING top (main) casing of main casing TYPE (nearest inch) (nearest foot)	27 27 below)
			J jet Submersible
	100		27 27
SOFT GREEN	85 105	60 61 63 64 56 70 E OTHER CASING (if used)	
SOFT GREEN WEATHERED		A diameter depth (feet)	PUMP INSTALLED
WEATHERED		4) """	TOWN THOUSAND
2			DRILLER WILL INSTALL PUMP YES (NO)
Rock		s ————————————————————————————————————	(CIRCLE) (YES or NO) IF DRILLER INSTALLS PUMP, THIS SECTION
,		N G	MUST BE COMPLETED FOR ALL WELLS
	1, - 1/20 1	screen type SCREEN RECORD	EXCEPT HOME USE TYPE OF PUMP INSTALLED
HARD OREEN	105 600	or open hole ST BR HO	PLACE (A,C,J,P,R,S,T,O)
7// 4		Insert STEEL BRASS OPEN	IN BOX - SEE ABOVE:
4 ARAY		Code BHOINZE HOLE	CAPACITY: GALLONS PER MINUTE
()		below PL OT	(to nearest gallon)
HARD GREEN + GRAY GRANITE		PLASTIC OTHER	PUMP HORSE POWER 37 41
•		<u>C 2 </u>	PUMP COLUMN LENGTH
		DEPTH (nearest ft.)	(nearest ft.)
		E 140 110 600 21	CASING HEIGHT (circle appropriate box and enter casing height)
		C - 3 11 13 17	/ + Dabove
		H 2	LAND SURFACE (nearest
		S 23 24 26 30 32 38	below J
CIRCLE APPROP	PRIATE LETTER	R 3	
A A WELL WAS ABANI	DONED AND SEALED VAS COMPLETED	E 38 39 41 45 47 51	LOCATION OF WELL ON LOT A SHOW PERMANENT STRUCTURE SUCH AS
E ELECTRIC LOG OBTA	•	SLOT SIZE 123	BUILDING, SEPTIC TANKS, AND/OR
	RTED TO PRODUCTION	DIAMETER (NEAREST	N LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES
P WELL		OF SCREEN (NCH)	(MEASUREMENTS TO WELL)
THEREBY CERTIFY THAT THIS WE ACCORDANCE WITH COMAR 26	LL HAS BEEN CONSTRUCTEO IN	from to	Way we start
AND IN CONFORMANCE WITH AL	I. CONDITIONS STATED IN THE	GRAVEL PACK	3 Went 32' E
ABOVE CAPTIONED PERMIT, AND SENTED HEREIN IS ACCURATE AN	O COMPLETE TO THE BEST OF	IF WELL DRILLED WAS	32' Fee 527
MY KNOWLEDGE.	1.0	FLOWING WELL INSERT FIN BOX 68 68 68	
DRILLERS IDENT. NO. L	1/2	OEP LISE ONLY	H; 60
(haslo H.	Hamilto.a	(NOT TO BE FILLED IN BY DRILLER)	
DRILLERS SIGNATURE	1 minutes	T (E.R.O.S.) W Q	SEWER SYSTE
(MUST MATCH SIGNATUR	E ON APPLICATION)	74 75 76	SEWER SYSTE
	· 	70 72 72 775 775	, , , , , , , , , , , ,
SITE SUPERVISOR (sign.	of driller or journeyman	TELESCOPE LOG OTHER DATA CASING INDICATOR	\
responsible for sitework if	different from permittee)	TONORIO . INDIONION	T

1 2922	SEQUENCE NO. (DENV USE ONLY)	STATE OF MARYLAND WELL COMPLETION REPORT	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
(THIS NUMBER IS TO BE P	UNCHED	FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE	COUNTY NUMBER D2888
T/CO USE ONLY	DATE WELL COMPLETE	Depth of Well 22 / / 26 (TO NEAREST FOOT)	PERMIT NO. FROM "PERMIT TO DRILL WELL C 8 - 8 8 - 2 2 0 (28 29 30 31 32 33 34 35 36 ;
WNERS_	TTLemyre	Donald	
STREET OR RFD	last name	first name TOWN	Perryuille
UBDIVISION WELL L	ne Bak	SECTION SECTION RECORD	C 3
Not required for	driven wells	WELL HAS BEEN GROUTED (Circle Appropriate Box)	1 2
STATE THE KIND OF PENETRATED, THEIR	COLOR, DEPTH,	TYPE OF GROUTING MATERIAL	PUMPING TEST HOURS PUMPED (nearest hour)
THICKNESS AND IF	FEET Check	CEMENT C M BENTONITE CLAY S C	PUMPING RATE (gal. per min. 2 5
additional sheets if needed)		NO. OF BAGS S NO. OF POUNDS 23-9 GALLONS OF WATER 135	to nearest gal.)
TOPSOIL		DEPTH OF GROUT SEAL (to nearest foot)	METHOD USED TO MEASURE PUMPING RATE
C/A, Sill Andgravel E/A, MIX	6 3	from 6 ft. to 6 d ft.	WATER LEVEL (distance from land surface) BEFORE PUMPING
Brigiave	3' 18'	(enter 0 if from surface) Casing CASING RECORD	17 20
Clay mil	18 40	types insert ST CO	WHEN PUMPING [7]
Rec CIAY		appropriate STEEL CONCRETE CODE PL OT	TYPE OF PUMP USED (for test) P piston T turbine
SIZTY SANCE	40 50	below PLASTIC OTHER	27 27 27 other
SITTY SAND	5080	MAIN Nominal diameter Total depth CASING top (main) casing of main casing	centrifugal R rotary (describe below)
Clay		TYPE (nearest inch) (nearest foot)	J jet S submersible
Silve sand	80 100	MZ	27 27
3721951	100 120	E OTHER CASING (if used)	
Line Strange My		H inch from to	PUMP INSTALLED
Smrgels		CA STORY	DRILLER WILL INSTALL PUMP YES (CIRCLE) (YES or NO)
a-a. plus	120 190	z G	IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS
Juny Ciny		screen type SCREEN RECORD or open hole	EXCEPT HOME USE TYPE OF PUMP INSTALLED
Pine SAnd	190/60	insert STEEL BRASS OPEN	PLACE (A,C,J,P,R,S,T,O) IN BOX - SEE ABOVE:
Pine SAND Med-Conse SAND	160 121 1	appropriate BRONZE HOLE	CAPACITY: GALLONS PER MINUTE 31 35
Med-Conge		PLASTIC OTHER	(to nearest gallon)
JAROC			PUMP COLUMN LENGTH 37 41
		DEPTH (nearest ft.)	(nearest ft.) 43 43 47 CASING HEIGHT (circle appropriate box
			and enter casing height)
<u>. </u>		H 2	LAND SURFACE (nearest foot)
CIRCLE APPROP	RIATE LETTER	G 23 24 26 . 30 32 36 E 3	LOCATION OF WELL ON LOT
A A WELL WAS ABAND WHEN THIS WELL V	OONED AND SEALED VAS COMPLETED	E 38 39 41 45 47 51	A SHOW PERMANENT STRUCTURE SUCH AS
E ELECTRIC LOG OBTA		SLOT SIZE 1_2023 (NEAREST	BUILDING, SEPTIC TANKS, AND/OR LANDMARKS AND INDICATE NOT LESS
WELL	RTED TO PRODUCTION	DIAMETER OF SCREEN (NEAREST INCH)	THAN TWO DISTANCES (MEASUREMENTS TO WELL)
HEREBY CERTIFY THAT THIS WE CCORDANCE WITH COMAR 26. AND IN CONFORMANCE WITH AL	MAMA "WELL CONSTRUCTION"	GRAVEL PACK I /6/	,
ABOVE CAPTIONED PERMIT, AND SENTED HEREIN IS ACCURATE AN	THAT THE INFORMATION PRE-	IF WELL DRILLED WAS	1
LMY KNOWLEDGE.		FLOWING WELL INSERT F IN BOX 68 68	l column R
DRILLERS IDENT. NO.	75 K	OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER)	20 pare way
DRILLERS SIGNATURE	T ON ADDITIONS	T (E.R.O.S.) W Q	pare and
(MUST MATCH SIGNATUR	E UN APPLICATION)	70 72 72	1 Idane
SITE SUPERVISOR (sign.	of driller or journeyman	TELESCOPE LOG OTHER DATA	

2. 10112191914 16003 MIK	EMERICENCE FEMALES		
B 1 8276 SEQUENCE NO. (DP USE ONLY)	i	MARYLAND ERMIT TO DRILL WELL	STATE PERMIT NUMBER
1 2 3 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)	1	int or type	C B 8 8 2 2 0 6 70 fill in this form completely 79
Date Received (APA) L 2 0 9 9 / OWNER INFORM.	IATION	B 3	LOCATION OF WELL D2888
8 13		B COUNTY	21
	First Name 34		NK
36 Street or RFD	55	SECTION 44 46	LOT 42 50 D 2888 42
Penny////	0 State 72 Zip 78	44 46 CHAP CS 52 NEAREST TOWN	Holder 111111
DRILLER INFORMATION TIMOTHY T Secretary)N [427]	MILES FROM TOWN (enter	
Diller's Name Thy Seward faul Son	77 License No. 80	B 4	73 78 77 78 (C/AC) > P)
Firm Name	1 Tavaren De 19734	DIRECTION OF WELL FROM TOWN (CIRCLE BOX)	11 NEAR WHAT ROAD 30
Address Signature Signature	13/3/9/	NW 8 NE	ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) (CIRCLE APPROPRIATE BOX)
B 2 WELL INFORMATION	1	8-9 (8-9 W) E	WEST STEAST
APPROX. PUMPING RATE (GAL. PER MIN.)	12		34 2 6 37
AVERAGE DAILY QUANTITY NEEDED (GAL PER DAY)	20		DISTANCE FROM ROAD ENTER FT or MI
USE FOR WATER (CIRCLE APPRO	·		MOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
HOME (SINGLE OR DOUBLE HOUSEHOUSEHOUSEHOUSEHOUSEHOUSEHOUSEHOUSE		Cecil	COUNTY NO.
INDUSTRIAL, COMMERCIAL, STATE AND OTHER (REQUIRES APPROPRIATION PE		STATE SIGNATURE	INSERT S
PUBLIC OR PRIVATE WATER COMPANY P APPROPRIATION PERMIT AND STATE H	(REQUIRES	DATE ISSUED 1 2 1 2 9 1	1 e. E. S. 6/12/
APPROVAL) TEST, OBSERVATION, MONITORING (MA		43 48 CC NORTH 6 3 0 0 0	O SIGNATURE () EXP. DATE O EAST / O 8 O O O O
APPROPRIATION PERMIT)		SHOW MAJOR FEATURE	55 57 63
APPROXIMATE DEPTH OF WELL.	FEET :	BOX & LOCATE WELL WITH AN X	
APPROXIMATE DIAMETER OF WELL	NEAREST INCH	SOURCES OF DRILLING 1.	i WATER
METHOD OF DRILLING (ci	· I	- 2. 3.	
BORED (or Augered) 30 AIR-ROTary AIR-PERcussion	Jetted & <u>DRIVEN</u> ROTARY (Hydraulic Rotary)	WRITE THE BOX NUMBE FROM THE MAP HERE	ER
CABLE REVerse-ROTary	DRive-POINT	<u> </u>	_
other	<u> </u>	F 1080	- 000X
REPLACEMENT OR DEEPENE. (CIRCLE APPROPRIATE BO)		DRAW A SKETCH BELOV	W SHOWING LOCATION OF WELL IN
THIS WELL WILL NOT REPLACE AN EX	XISTING WELL	RELATION TO NEARBY 1	TOWNS AND ROADS AND GIVE TO NEAREST ROAD JUNCTION
THIS WELL WILL REPLACE A WELL THE ABANDONED AND SEALED		N SITE	CHARK RC
39 S THIS WELL WILL REPLACE A WELL THE	·	† *	
D THIS WELL WILL DEEPEN AN EXISTING PERMIT NUMBER OF WELL TO BE REPLACE		/	
(IF AVAILABLE) 41	52		wood All RD.
Not to be filled in by driller (OEP L	JSE ONLY)	-	
APPROP. PERMIT NUMBER G	A P 63		
FORCE WRITE INITIALS PERMIT No. C E - 70 71 72	88-2206		
SPECIAL CONDITIONS			







Certificate of Analysis

Thursday, November 29, 2001

Prepared expressly for:

KCE Engineering Inc.

3300 North Ridge Road

Suite 360

Ellicott City, Maryland 21043

Attention: Mr. Vir Kathuria Report for Lab No: 81185. Samples received by Martel. P.O. Number: KATHURIA

Project Identification: GW Monitoring, Stancill Quarry, 11/06/01.

MARTEL NO. 81185	. 000001	P-1	CLIENT	SAMPLE IDEN	TIFICATION		Sample Date/Time 11/06/2001 10:30
Compound			Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Methane, dissolv			0.200	 mg/l	EPA RSK 175	0.0005	11/13/2001 12:00 SUB
Carbon Dioxide			140	mg/l	SM 4500	1	11/07/2001 15:00 BTA
Total Petroleum	Hydrocarbon	s	<2	mg/l	EPA 418.1	2	11/16/2001 11:25 DLJ
Sulfide	•		<0.1	mg/l	EPA 376.2	0.1	11/12/2001 14:30 BM
Nitrate-Nitrite Ni	trogen		0.23	mg/l	EPA 353.1	0.05	11/15/2001 23:51 MDS
Kjeldahl Nitroger	n (Total)		<0.5	mg/l	EPA 351.3	0.5	11/09/2001 09:10 TB
Ammonia Nitrog			<0.2	mg/l	EPA 350.2	0.2	11/08/2001 11:45 TB
Chemical Oxyge	n Demand		230	mg/l	EPA 410.4	20	11/15/2001 11:30 BM
Phosphorus (total	al)		0.49	mg/l	EPA 365.2	0.05	11/14/2001 15:21 BM
TOC (Total Orga	•		20	mg/l	EPA 415.1	0.1	11/11/2001 11:00 AK
Sodium	•		5.8	mg/l	EPA 200.7	0.5	11/14/2001 16:51 DLJ
Potassium			<5.0	mg/l	EPA 200.7	5	11/14/2001 16:51 DLJ
Calcium			5.5	mg/l	EPA 200.7	0.5	11/14/2001 16:51 DLJ
Magnesium			1.3	mg/l	EPA 200.7	0.5	11/14/2001 16:51 DLJ
Iron			120	mg/l	EPA 200.7	0.01	11/14/2001 16:51 DLJ
Manganese			0.26	mg/l	EPA 200.7	0.01	11/14/2001 16:51 DLJ
Arsenic			<0.005	mg/l	EPA 206.2	0.005	11/15/2001 10:42 LB
Cadmium			0.0005	mg/i	EPA 213.2	0.0005	11/14/2001 09:45 LB
Chromium			0.090	mg/l	EPA 218.2	0.005	11/14/2001 11:46 LB
Copper			0.020	mg/l	EPA 220.2	0.005	11/14/2001 11:46 LB
Lead			0.027	mg/l	EPA 239.2	0.005	11/15/2001 07:53 LB
Zinc			0.12	mg/l	EPA 200.7	0.01	11/14/2001 16:51 DLJ
Nickel			0.015	mg/l	EPA 249.2	0.005	11/14/2001 11:46 LB
Selenium		:	<0.005	mg/l	EPA 270.2	0.005	11/15/2001 09:17 LB
Bicarbonates (a	s CaCO3)		39	mg/l	EPA 310.1	1	11/12/2001 11:20 TB
Chloride	•		15	mg/l	EPA 325.2	2	11/12/2001 13:55 BM
Sulfate			17	mg/l	EPA 375.3	5	11/19/2001 14:47 CBS
Nitrate Nitrogen	ı		0.2	mg/l	EPA 353.1	0.05	11/15/2001 23:51 CBS
Nitrite Nitrogen			0.03	mg/l	EPA 353.1	0.02	11/07/2001 14:30 BM
Total Nitrogen		•	0.23	mg/l	EPA Var	0.05	1 1
Alkalinity, total ((as CaCO3)		39	mg/l	EPA 310.1	1	11/12/2001 11:20 TB

Martel Laboratories $_{\it JDS}$ Inc.





MARTEL NO. 81185 000001	P-1	CLIENT	SAMPLE IDEN	TIFICATION		Sample Date/Time 11/06/2001 10:30
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initia
Solids (Dissolved)		210 —	mg/l	EPA 160.1		11/09/2001 13:07 T
Iron (ferrous)		Indeterminate		SM 315B	0.01	11/15/2001 10:00 L
Iron (Femc by Calculation)		Indeterminate		SM 3500D	60	11/15/2001 10:00 L
MARTEL NO.		CLIENT	SAMPLE IDEN	TIFICATION		Sample Date/Time
81185 000002	P-2					11/06/2001 13:35
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initia
Methane, dissolved		0.0011	mg/l	EPA RSK 175	0.0005	11/13/2001 12:00 SU
Carbon Dioxide		9	mg/l	SM 4500	1	11/07/2001 15:00 BT
Total Petroleum Hydrocarbons		<2	mg/l	EPA 418.1	2	11/16/2001 11:25 D
Sulfide		<0.1	mg/l	EPA 376.2	0.1	11/12/2001 14:30 B
Nitrate-Nitrite Nitrogen		0.35	mg/l	EPA 353.1	0.05	11/08/2001 00:05 ME
Kjeldahl Nitrogen (Total)		<0.5	mg/l	EPA 351.3	0.5	11/09/2001 09:10
Ammonia Nitrogen		<0.2	mg/l	EPA 350.2	0.2	11/08/2001 11:45
Chemical Oxygen Demand		21	mg/l	EPA 410.4	20	11/15/2001 11:30 E
Phosphorus (total)		0.26	mg/l	EPA 365.2	0.05	11/14/2001 15:21 E
FOC (Total Organic Carbon)		5.0	mg/l	EPA 415.1	0.1	11/11/2001 11:00
Sodium		13	mg/l	EPA 200.7	0.5	11/14/2001 16:55 D
Potassium	•	<5.0	mg/l	EPA 200.7	5	11/14/2001 16:55 D
Calcium		5.9	mg/l	EPA 200.7	0.5	11/14/2001 16:55 D
Magnesium		1.9	mg/l	EPA 200.7	0.5	11/14/2001 16:55 D
Iron		5.7	mg/l	EPA 200.7	0.01	11/14/2001 16:55 D
Manganese		0.12	mg/l	EPA 200.7	0.01	11/14/2001 16:55 D
Arsenic		<0.005	mg/l	EPA 206.2	0.005	11/15/2001 10:42
Cadmium		<0.0005	mg/l	EPA 213.2	0.0005	11/14/2001 09:45
Chromium		0.018	mg/l	EPA 218.2	0.005	11/14/2001 11:46
Copper		0.008	mg/l	EPA 220.2	0.005	11/14/2001 11:46
Lead		0.007	mg/l	EPA 239.2	0.005	11/15/2001 07:53
Zinc		0.05	mg/l	EPA 200.7	0.01	11/14/2001 16:55 D
Nickel		0.007	mg/l	EPA 249.2	0.005	11/14/2001 11:46
Selenium		<0.005	mg/l	EPA 270.2	0.005	11/15/2001 09:17
Bicarbonates (as CaCO3)		<1	mg/l	EPA 310.1	1	11/12/2001 11:20
Chloride		13	mg/l	EPA 325.2	2	11/12/2001 13:55 E
Sulfate		16	mg/l	EPA 375.3	5	11/19/2001 15:01 C
Nitrate Nitrogen		<0.05	mg/l	EPA 353.1	0.05	11/16/2001 00:05 C
Nitrite Nitrogen		0.35	mg/l	EPA 353.1	0.02	11/07/2001 14:30
Total Nitrogen	٠	0.35	mg/l	EPA Var	0.05	
Alkalinity, total (as CaCO3)		<1	mg/l	EPA 310.1	1	11/12/2001 11:20
Solids (Dissolved)		54	mg/l	EPA 160.1	1	11/09/2001 13:07
Iron (ferrous)		Indeterminate	_	SM 315B	60	11/15/2001 10:00
Iron (Ferric by Calculation)		Indeterminate		SM 3500D	60	11/15/2001 10:00

Martel Laboratories $_{\it JDS}$ Inc.

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MARTEL NO. 81185 000003	P-3	CLIENT S	SAMPLE IDEN	TIFICATION		Sample Date/Time 11/06/2001 11:45
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Methane, dissolved		0.066	 mg/l	EPA RSK 175	0.0005	11/13/2001 12:00 SUI
Carbon Dioxide		24	mg/l	SM 4500	1	11/07/2001 15:00 BT/
Total Petroleum Hydrocarbon	s	<2	mg/l	EPA 418.1	2	11/16/2001 11:25 DL
Sulfide		<0.1	mg/l	EPA 376.2	0.1	11/12/2001 14:30 BM
Nitrate-Nitrite Nitrogen		0.12	mg/l	EPA 353.1	0.05	11/08/2001 00:19 MD
Kjeldahl Nitrogen (Total)		<0.5	mg/l	EPA 351.3	0.5	11/09/2001 09:10 T
Ammonia Nitrogen		<0.2	mg/l	EPA 350.2	0.2	11/08/2001 11:45 T
Chemical Oxygen Demand		<20	mg/l	EPA 410.4	20	11/15/2001 11:30 BI
Phosphorus (total)		0.17	mg/l	EPA 365.2	0.05	11/14/2001 15:21 BI
TOC (Total Organic Carbon)		6.9	mg/l	EPA 415.1	0.1	11/11/2001 11:00 A
Sodlum		7.0	mg/l	EPA 200.7	0.5	11/14/2001 16:59 DL
Potassium		<5.0	mg/l	EPA 200.7	5	11/14/2001 16:59 DL
Calcium		8.0	mg/l	EPA 200.7	0.5	11/14/2001 16:59 DL
Magnesium		2.0	mg/l	EPA 200.7	0.5	11/14/2001 16:59 DL
Iron		0.89	mg/l	EPA 200.7	0.01	11/14/2001 16:59 DL
Manganese		0.11	mg/l	EPA 200.7	0.01	11/14/2001 16:59 DL
Arsenic		<0.005	mg/l	EPA 206.2	0.005	11/15/2001 10:42 L
Cadmium		<0.0005	mg/l	EPA 213.2	0.0005	11/14/2001 09:45 L
Chromium		<0.005	mg/l	EPA 218.2	0.005	11/14/2001 11:46 L
Copper		0.010	mg/l	EPA 220.2	0.005	11/14/2001 11:46 L
Lead		<0.005	mg/l	EPA 239.2	0.005	11/15/2001 07:53 L
Zinc		0.03	mg/l	EPA 200.7	0.01 .	11/14/2001 16:59 DL
Nickel		0.008	mg/l	EPA 249.2	0.005	11/14/2001 11:46 L
Selenium		<0.005	mg/l	EPA 270.2	0.005	11/15/2001 09:17 L
Bicarbonates (as CaCO3)		18	mg/l	EPA 310.1	1	11/12/2001 11:20 T
Chloride		14	mg/l	EPA 325.2	2	11/12/2001 13:55 BI
Sulfate		6.7	mg/l	EPA 375.3	5	11/19/2001 15:15 CB
Nitrate Nitrogen		0.1	mg/l	EPA 353.1	0.05	11/16/2001 00:19 CB
Nitrite Nitrogen		0.02	mg/l	EPA 353.1	0.02	11/07/2001 14:30 BI
Total Nitrogen		0.12	mg/l	EPA Var	0.05	1
Alkalinity, total (as CaCO3)		18	mg/l	EPA 310.1	1	11/12/2001 11:20 T
Solids (Dissolved)		64	mg/l	EPA 160.1	1	11/09/2001 13:07 T
Iron (ferrous)		Indeterminate	•	SM 315B	60	11/15/2001 10:00 L
Iron (Ferric by Calculation)		Indeterminate	•	SM 3500D	60	11/15/2001 10:00 L
MARTEL NO.		CLIENT	SAMPLE IDEN	TIFICATION		Sample Date/Time
81185 000004	P-4					11/06/2001 14:00
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initia
Methane, dissolved		0.090	mg/l	EPA RSK 175	0.0005	11/13/2001 12:00 SU
Carbon Dioxide		8	mg/l	SM 4500	1	11/07/2001 15:00 BT
Total Petroleum Hydrocarbon	s	<2	mg/l	EPA 418.1	2	11/16/2001 11:25 DL
Sulfide		<0.1	mg/l	EPA 376.2	0.1	11/12/2001 14:30 BM
Nitrate-Nitrite Nitrogen		<0.05	mg/l	EPA 353.1	0.05	11/08/2001 00:33 MD:

Martel Laboratories _{JDS} Inc. 1025 Cromwell Bridge Road - Baltimore, Maryland 21286 PH 410-825-7790 FAX 410-821-1054 EMAIL: martel @ martelabs.com

KCEENG

Page 3 11/29/2001



MARTEL NO. 81185 000004 P-4	CLIENT	SAMPLE IDENT	IFICATION		Sample Date/Time 11/06/2001 14:00
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Kjeldahl Nitrogen (Total)	<0.5		EPA 351.3	0.5	11/09/2001 09:10 TE
Ammonia Nitrogen	<0.2	mg/i	EPA 350.2	0.2	11/08/2001 11:45 TE
Chemical Oxygen Demand	71	mg/l	EPA 410.4	20	11/15/2001 11:30 BN
Phosphorus (total)	0.57	mg/l	EPA 365.2	0.05	11/14/2001 15:21 BN
TOC (Total Organic Carbon)	22	mg/l	EPA 415.1	0.1	11/11/2001 11:00 A
Sodium	4.9	mg/l	EPA 200.7	0.5	11/14/2001 17:03 DL
Potassium	<5.0	mg/l	EPA 200.7	5	11/14/2001 17:03 DL
Calcium	5.6	mg/l	EPA 200.7	0.5	11/14/2001 17:03 DL
Magnesium	2.3	mg/l	EPA 200.7	0.5	11/14/2001 17:03 DL
Iron	7.6	mg/i	EPA 200.7	0.01	11/14/2001 17:03 DL
Manganese	0.35	mg/l	EPA 200.7	0.01	11/14/2001 17:03 DL
Arsenic	<0.005	mg/l	EPA 206.2	0.005	11/15/2001 10:42 L
Cadmium	<0.0005	mg/l	EPA 213.2	0.0005	11/14/2001 09:45 L
Chromium	0.047	mg/l	EPA 218.2	0.005	11/14/2001 11:46 L
Copper	0.027	mg/l	EPA 220.2	0.005	11/14/2001 11:46 L
Lead	0.025	mg/l	EPA 239.2	0.005	11/15/2001 07:53 L
Zinc	0.06	mg/l	EPA 200.7	0.01	11/14/2001 17:03 DL
Nickel	0.014	mg/l	EPA 249.2	0.005	11/14/2001 11:46 L
Selenium	<0.005	mg/l	EPA 270.2	0.005	11/15/2001 09:17 L
Bicarbonates (as CaCO3)	<1	mg/l	EPA 310.1	1	11/12/2001 11:20 T
Chloride	10	mg/l	EPA 325.2	2	11/12/2001 13:55 B
Sulfate	41	mg/l	EPA 375.3	5 ·	11/19/2001 15:28 CB
Nitrate Nitrogen	<0.05	mg/l	EPA 353.1	0.05	11/16/2001 00:33 CB
Nitrite Nitrogen	<0.02	mg/l	EPA 353.1	0.02	11/07/2001 14:30 B
Total Nitrogen	<0.05	mg/l	EPA Var	0.05	I
Alkalinity, total (as CaCO3)	<1	mg/l	EPA 310.1	1	11/12/2001 11:20 T
Solids (Dissolved)	18	mg/l	EPA 160.1	1	11/09/2001 13:07 T
Iron (ferrous)	Indeterminat	<u> </u>	SM 315B	60	11/15/2001 10:00 L
Iron (Ferric by Calculation)	Indeterminate	_	SM 3500D	60	11/15/2001 10:00 L
MARTEL NO.	CLIENT	SAMPLE IDEN	TIFICATION		Sample Date/Time
81185 000005 P-5	32.2.11		_		11/06/2001 11:15
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initia
Methane, dissolved	0.0063		EPA RSK 175	0.0005	11/13/2001 12:00 SU
Carbon Dioxide	60	mg/l	SM 4500	1 .	11/07/2001 15:00 BT
Total Petroleum Hydrocarbons	<2	mg/l	EPA 418.1	2	11/16/2001 11:25 D
Sulfide	<0.1	mg/l	EPA 376.2	0.1	11/12/2001 14:30 B
Nitrate-Nitrite Nitrogen	<0.05	mg/l	EPA 353.1	0.05	11/08/2001 01:01 MD
Kjeldahl Nitrogen (Total)	<0.5	mg/l	EPA 351.3	0.5	11/09/2001 09:10
Ammonia Nitrogen	<0.2	mg/l	EPA 350.2	0.2	11/08/2001 11:45
Chemical Oxygen Demand	65	mg/l	EPA 410.4	20	11/15/2001 11:30 B
Phosphorus (total)	0.65	mg/kg	EPA 365.2	0.05	11/15/2001 16:27 E
TOC (Total Organic Carbon)	5.9	mg/l	EPA 415.1	0.1	11/11/2001 11:00 /

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MARTEL NO. 81185 000005 P-5	CLIENT	SAMPLE IDENT	TIFICATION		Sample Date/Time 11/06/2001 11:15
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
	9.0	 mg/l	EPA 200.7	0.5	11/14/2001 17:07 DL
Potassium	<5.0	mg/l	EPA 200.7	5	11/14/2001 17:07 DL
Calcium	9.7	mg/l	EPA 200.7	0.5	11/14/2001 17:07 DL
Magnesium	8.3	mg/l	EPA 200.7	0.5	11/14/2001 17:07 DL
Iron	11	mg/l ·	EPA 200.7	0.01	11/14/2001 17:07 DL
Manganese	4.2	mg/l	EPA 200.7	0.01	11/14/2001 17:07 DL
Arsenic	<0.005	mg/l	EPA 206.2	0.005	11/15/2001 10:42 L
Cadmium	<0.0005	mg/l	EPA 213.2	0.0005	11/14/2001 09:45 L
Chromium	0.011	mg/l	EPA 218.2	0.005	11/14/2001 11:46 L
Copper	0.023	mg/l	EPA 220.2	0.005	11/14/2001 11:46 L
Lead	0.016	mg/l	EPA 239.2	0.005	11/15/2001 07:53 L
Zinc	0.05	mg/l	EPA 200.7	0.01	11/14/2001 17:07 DL
Nickel	0.019	mg/l	EPA 249.2	0.005	11/14/2001 11:46 L
Selenium	<0.005	mg/l	EPA 270.2	0.005	11/15/2001 09:17 L
Bicarbonates (as CaCO3)	32	mg/l	EPA 310.1	1	11/12/2001 11:20 T
Chloride	13	mg/l	EPA 325.2	2	11/12/2001 13:55 B
Sulfate	20	mg/l	EPA 375.3	5	11/19/2001 16:11 CB
Sullate Nitrate Nitrogen	<0.05	mg/l	EPA 353.1	0.05	11/16/2001 01:01 CB
Nitrite Nitrogen	0.03	mg/l	EPA 353.1	0.02	11/07/2001 14:30 B
Total Nitrogen	<0.05	mg/l	EPA Var	0.05	1
Alkalinity, total (as CaCO3)	32	mg/l	EPA 310.1	. 1	11/12/2001 11:20 T
Solids (Dissolved)	140	mg/l	EPA 160.1	1 .	11/09/2001 13:07 T
Iron (ferrous)	Indeterminate	•	SM 315B	60	11/15/2001 10:00 L
Iron (Femc by Calculation)	Indeterminate		SM 3500D	60	11/15/2001 10:00 L
MARTEL NO.	CLIENT	SAMPLE IDEN	TIFICATION		Sample Date/Time 11/06/2001 14:30
81185 000006 P-6 Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Tima/Initia
Methane, dissolved	0.0011		EPA RSK 175	0.0005	11/13/2001 12:00 SU
Carbon Dioxide	16	mg/l	SM 4500	1	11/07/2001 15:00 BT
Total Petroleum Hydrocarbons	<2	mg/l	EPA 418.1	2	11/16/2001 11:25 DL
	<0.1	mg/l	EPA 376.2	0.1	11/12/2001 14:30 B
Sulfide		•	EPA 353.1	0.05	11/08/2001 01:15 ME
	<0.05	mg/l	LI A 333. I		
Nitrate-Nitrite Nitrogen		mg/l mg/l	EPA 351.3	0.5	11/09/2001 09:10 T
Nitrate-Nitrite Nitrogen Kjeldahl Nitrogen (Total)	<0.5	mg/l		0.5 0.2	
Nitrate-Nitrite Nitrogen Kjeldahl Nitrogen (Total) Ammonia Nitrogen		mg/l mg/l	EPA 351.3		11/08/2001 11:45 1
Nitrate-Nitrite Nitrogen Kjeldahl Nitrogen (Total) Ammonia Nitrogen Chemical Oxygen Demand	<0.5 <0.2	mg/l mg/l mg/l	EPA 351.3 EPA 350.2	0.2	11/08/2001 11:45 T 11/15/2001 11:30 B
Nitrate-Nitrite Nitrogen Kjeldahl Nitrogen (Total) Ammonia Nitrogen Chemical Oxygen Demand Phosphorus (total)	<0.5 <0.2 49	mg/l mg/l mg/l mg/l	EPA 351.3 EPA 350.2 EPA 410.4	0.2 20	11/08/2001 11:45 T 11/15/2001 11:30 B 11/14/2001 15:21 B
Nitrate-Nitrite Nitrogen Kjeldahl Nitrogen (Total) Ammonia Nitrogen Chemical Oxygen Demand Phosphorus (total) TOC (Total Organic Carbon)	<0.5 <0.2 49 0.55 14	mg/l mg/l mg/l mg/l mg/l	EPA 351.3 EPA 350.2 EPA 410.4 EPA 365.2	0.2 20 0.05	11/08/2001 11:45 T 11/15/2001 11:30 B 11/14/2001 15:21 B 11/11/2001 11:00 A
Nitrate-Nitrite Nitrogen Kjeldahl Nitrogen (Total) Ammonia Nitrogen Chemical Oxygen Demand Phosphorus (total) TOC (Total Organic Carbon) Sodium	<0.5 <0.2 49 0.55	mg/l mg/l mg/l mg/l mg/l mg/l	EPA 351.3 EPA 350.2 EPA 410.4 EPA 365.2 EPA 415.1	0.2 20 0.05 0.1	11/08/2001 11:45 T 11/15/2001 11:30 B 11/14/2001 15:21 B 11/11/2001 11:00 A 11/14/2001 17:10 D
Chemical Oxygen Demand Phosphorus (total) TOC (Total Organic Carbon) Sodium Potassium	<0.5 <0.2 49 0.55 14 3.6 <5.0	mg/l mg/l mg/l mg/l mg/l mg/l	EPA 351.3 EPA 350.2 EPA 410.4 EPA 365.2 EPA 415.1 EPA 200.7 EPA 200.7	0.2 20 0.05 0.1 0.5	11/08/2001 11:45 T 11/15/2001 11:30 B 11/14/2001 15:21 B 11/11/2001 11:00 A 11/14/2001 17:10 D
Nitrate-Nitrite Nitrogen Kjeldahl Nitrogen (Total) Ammonia Nitrogen Chemical Oxygen Demand Phosphorus (total) TOC (Total Organic Carbon) Sodium	<0.5 <0.2 49 0.55 14 3.6	mg/l mg/l mg/l mg/l mg/l mg/l	EPA 351.3 EPA 350.2 EPA 410.4 EPA 365.2 EPA 415.1 EPA 200.7	0.2 20 0.05 0.1 0.5 5	11/09/2001 09:10 T 11/08/2001 11:45 T 11/15/2001 11:30 B 11/14/2001 15:21 B 11/11/2001 17:10 DI 11/14/2001 17:10 DI 11/14/2001 17:10 DI 11/14/2001 17:10 DI

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MARTEL NO. 81185 000006 P-6	CLIENT S	CLIENT SAMPLE IDENTIFICATION				
Compound	Test Value	Test Unit	Method	Detection Limit ·	· Analysis Date/Time/Initia	
	0.30	 mg/l	EPA 200.7	0.01	11/14/2001 17:10 D	
Arsenic	. <0.005	mg/l	EPA 206.2	0.005	11/15/2001 10:42 [
Cadmium	0.0007	mg/l	EPA 213.2	0.0005	11/14/2001 09:45	
Chromium	0.035	mg/l	EPA 218.2	0.005	11/14/2001 11:46	
Copper	0.018	mg/l	EPA 220.2	0.005	11/14/2001 11:46	
_ead	0.012	mg/l	EPA 239.2	0.005	11/15/2001 07:53	
Zinc	0.04	mg/l	EPA 200.7	0.01	11/14/2001 17:10 D	
Nickel	0.011	mg/l	EPA 249.2	0.005	11/14/2001 11:46	
Selenium	<0.005	mg/l	EPA 270.2	0.005	11/15/2001 09:17	
Bicarbonates (as CaCO3)	<1	mg/l	EPA 310.1	1 .	11/12/2001 11:20	
Chloride	6	mg/l	EPA 325.2	2	11/12/2001 13:55 E	
Sulfate	20	mg/l	EPA 375.3	5	11/19/2001 16:25 C	
Nitrate Nitrogen	<0.05	mg/l	EPA 353.1	0.05	11/16/2001 01:15 CI	
Nitrite Nitrogen	<0.02	mg/l	EPA 353.1	0.02	11/07/2001 14:30 E	
Total Nitrogen	<0.05	mg/l	EPA Var	0.05		
Alkalinity, total (as CaCO3)	<1	mg/l	EPA 310.1	1	11/12/2001 11:20	
Solids (Dissolved)	50	mg/l	EPA 160.1	1	11/09/2001 13:07	
ron (ferrous)	Indeterminate	-	SM 315B	60	11/15/2001 10:00	
ron (Ferric by Calculation)	Indeterminate		SM 3500D	60	11/15/2001 10:00	
	CLIENT	SAMPLE IDEN	TIFICATION		Sample Date/Time 11/06/2001 15:00	
81185 000007 P-7	CLIENT Test Value		TIFICATION Method	Detection Limit	11/06/2001 15:00	
81185 000007 P-7 Compound	Test Value	Test Unit	Method		11/06/2001 15:00 Analysis Date/Time/Initi	
81185 000007 P-7 Compound Methane, dissolved	Test Value	Test Unit mg/l	Method EPA RSK 175	0.0005	11/06/2001 15:00 Analysis Date/Time/Initi 11/13/2001 12:00 SI	
81185 000007 P-7 Compound Methane, dissolved Carbon Dioxide	Test Value 0.00053 20	Test Unit mg/l mg/l	Method EPA RSK 175 SM 4500	0.0005	11/06/2001 15:00 Analysis Date/Time/Initi 11/13/2001 12:00 SI 11/07/2001 15:00 B'	
81185 000007 P-7 Compound Methane, dissolved Carbon Dioxide Total Petroleum Hydrocarbons	Test Value	Test Unit mg/l mg/l mg/l	Method EPA RSK 175 SM 4500 EPA 418.1	0.0005 1 2	11/06/2001 15:00 Analysis Date/Time/Initi 11/13/2001 12:00 SI 11/07/2001 15:00 B 11/16/2001 11:25 D	
81185 000007 P-7 Compound Methane, dissolved Carbon Dioxide Total Petroleum Hydrocarbons Sulfide	0.00053 20 <2 <0.1	Test Unit mg/l mg/l mg/l	Method EPA RSK 175 SM 4500 EPA 418.1 EPA 376.2	0.0005 1 2 0.1	11/06/2001 15:00 Analysis Date/Time/Initi 11/13/2001 12:00 SI 11/07/2001 15:00 B 11/16/2001 11:25 D 11/12/2001 14:30 B	
81185 000007 P-7 Compound Methane, dissolved Carbon Dioxide Total Petroleum Hydrocarbons Sulfide Nitrate-Nitrite Nitrogen	7est Value 0.00053 20 <2 <0.1 1.7	Test Unit mg/l mg/l mg/l mg/l mg/l mg/l	Method EPA RSK 175 SM 4500 EPA 418.1 EPA 376.2 EPA 353.1	0.0005 1 2 0.1 0.05	11/06/2001 15:00 Analysis Date/Time/Initi 11/13/2001 12:00 SI 11/07/2001 15:00 B 11/16/2001 11:25 D 11/12/2001 14:30 B	
81185 000007 P-7 Compound Methane, dissolved Carbon Dioxide Total Petroleum Hydrocarbons Sulfide Nitrate-Nitrite Nitrogen Kjeldahl Nitrogen (Total)	7est Value 0.00053 20 <2 <0.1 1.7 <0.5	Test Unit mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	Method EPA RSK 175 SM 4500 EPA 418.1 EPA 376.2 EPA 353.1 EPA 351.3	0.0005 1 2 0.1 0.05 0.5	11/06/2001 15:00 Analysis Date/Time/Initi 11/13/2001 12:00 SI 11/07/2001 15:00 B 11/16/2001 11:25 D 11/12/2001 14:30 B 11/08/2001 01:28 MI 11/09/2001 09:10	
81185 000007 P-7 Compound Methane, dissolved Carbon Dioxide Total Petroleum Hydrocarbons Sulfide Nitrate-Nitrite Nitrogen Kjeldahl Nitrogen (Total) Ammonia Nitrogen	7est Value 0.00053 20 <2 <0.1 1.7 <0.5 <0.2	Test Unit mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	Method EPA RSK 175 SM 4500 EPA 418.1 EPA 376.2 EPA 353.1 EPA 351.3 EPA 350.2	0.0005 1 2 0:1 0.05 0.5 0.2	11/06/2001 15:00 Analysis Date/Time/Initi 11/13/2001 12:00 SI 11/07/2001 15:00 B 11/16/2001 11:25 D 11/12/2001 14:30 B 11/08/2001 01:28 MI 11/09/2001 09:10 11/08/2001 11:45	
81185 000007 P-7 Compound Methane, dissolved Carbon Dioxide Total Petroleum Hydrocarbons Sulfide Nitrate-Nitrite Nitrogen Kjeldahl Nitrogen (Total) Ammonia Nitrogen Chemical Oxygen Demand	7est Value 0.00053 20 <2 <0.1 1.7 <0.5 <0.2 36	Test Unit mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	Method EPA RSK 175 SM 4500 EPA 418.1 EPA 376.2 EPA 353.1 EPA 351.3 EPA 350.2 EPA 410.4	0.0005 1 2 0.1 0.05 0.5 0.2	11/06/2001 15:00 Analysis Date/Time/Inition 11/13/2001 12:00 SI 11/07/2001 15:00 B 11/16/2001 11:25 D 11/12/2001 14:30 B 11/08/2001 01:28 MI 11/09/2001 09:10 11/08/2001 11:45 11/15/2001 11:30 B	
81185 000007 P-7 Compound Methane, dissolved Carbon Dioxide Total Petroleum Hydrocarbons Sulfide Nitrate-Nitrite Nitrogen Kjeldahl Nitrogen (Total) Ammonia Nitrogen Chemical Oxygen Demand Phosphorus (total)	7est Value 0.00053 20 <2 <0.1 1.7 <0.5 <0.2 36 0.33	Test Unit mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/	Method EPA RSK 175 SM 4500 EPA 418.1 EPA 376.2 EPA 353.1 EPA 351.3 EPA 350.2 EPA 410.4 EPA 365.2	0.0005 1 2 0.1 0.05 0.5 0.2 20 0.05	11/06/2001 15:00 Analysis Date/Time/Init 11/13/2001 12:00 Si 11/07/2001 15:00 B 11/16/2001 11:25 D 11/12/2001 14:30 B 11/08/2001 01:28 Mi 11/09/2001 09:10 11/08/2001 11:45 11/15/2001 11:30 B 11/14/2001 15:21 B	
Compound Methane, dissolved Carbon Dioxide Total Petroleum Hydrocarbons Sulfide Nitrate-Nitrite Nitrogen Kjeldahl Nitrogen (Total) Ammonia Nitrogen Chemical Oxygen Demand Phosphorus (total) TOC (Total Organic Carbon)	Test Value 0.00053 20 <2 <0.1 1.7 <0.5 <0.2 36 0.33 7.2	Test Unit mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/	Method EPA RSK 175 SM 4500 EPA 418.1 EPA 376.2 EPA 353.1 EPA 351.3 EPA 350.2 EPA 410.4 EPA 365.2 EPA 415.1	0.0005 1 2 0.1 0.05 0.5 0.2 20 0.05 0.1	11/06/2001 15:00 Analysis Date/Time/Initime	
Compound Methane, dissolved Carbon Dioxide Total Petroleum Hydrocarbons Sulfide Nitrate-Nitrite Nitrogen Kjeldahl Nitrogen (Total) Ammonia Nitrogen Chemical Oxygen Demand Phosphorus (total) TOC (Total Organic Carbon) Sodium	7est Value 0.00053 20 <2 <0.1 1.7 <0.5 <0.2 36 0.33 7.2 8.2	Test Unit mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	Method EPA RSK 175 SM 4500 EPA 418.1 EPA 376.2 EPA 353.1 EPA 351.3 EPA 350.2 EPA 410.4 EPA 365.2 EPA 415.1 EPA 200.7	0.0005 1 2 0.1 0.05 0.5 0.2 20 0.05 0.1	11/06/2001 15:00 Analysis Date/Time/Inition 11/13/2001 12:00 St 11/07/2001 15:00 B 11/16/2001 11:25 D 11/12/2001 01:28 Mt 11/09/2001 09:10 11/08/2001 11:45 11/15/2001 11:30 B 11/14/2001 15:21 B 11/11/2001 17:14 D	
Compound Methane, dissolved Carbon Dioxide Total Petroleum Hydrocarbons Sulfide Nitrate-Nitrite Nitrogen Kjeldahl Nitrogen (Total) Ammonia Nitrogen Chemical Oxygen Demand Phosphorus (total) TOC (Total Organic Carbon) Sodium Potassium	Test Value 0.00053 20 <2 <0.1 1.7 <0.5 <0.2 36 0.33 7.2 8.2 <5.0	Test Unit mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/	Method EPA RSK 175 SM 4500 EPA 418.1 EPA 376.2 EPA 353.1 EPA 351.3 EPA 350.2 EPA 410.4 EPA 365.2 EPA 415.1 EPA 200.7 EPA 200.7	0.0005 1 2 0.1 0.05 0.5 0.2 20 0.05 0.1 0.5 5	11/06/2001 15:00 Analysis Date/Time/Inition 11/13/2001 12:00 SI 11/07/2001 15:00 BI 11/16/2001 11:25 DI 11/12/2001 14:30 BI 11/08/2001 01:28 MI 11/09/2001 09:10 11/08/2001 11:45 11/15/2001 11:30 BI 11/14/2001 15:21 BI 11/11/2001 17:14 DI 11/14/2001 17:14 DI 11/14/2001 17:14 DI	
Compound Methane, dissolved Carbon Dioxide Total Petroleum Hydrocarbons Sulfide Nitrate-Nitrite Nitrogen Kjeldahl Nitrogen (Total) Ammonia Nitrogen Chemical Oxygen Demand Phosphorus (total) TOC (Total Organic Carbon) Sodium Potassium Calcium	Test Value 0.00053 20 <2 <0.1 1.7 <0.5 <0.2 36 0.33 7.2 8.2 <5.0 4.8	Test Unit mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/	Method EPA RSK 175 SM 4500 EPA 418.1 EPA 376.2 EPA 353.1 EPA 351.3 EPA 350.2 EPA 410.4 EPA 365.2 EPA 415.1 EPA 200.7 EPA 200.7	0.0005 1 2 0.1 0.05 0.5 0.2 20 0.05 0.1 0.5 5 0.5	11/06/2001 15:00 Analysis Date/Time/Initi 11/13/2001 12:00 SI 11/07/2001 15:00 B 11/16/2001 11:25 D 11/12/2001 14:30 B 11/08/2001 01:28 MI 11/09/2001 09:10 11/08/2001 11:45 11/15/2001 11:30 B 11/14/2001 15:21 B 11/11/2001 17:14 D 11/14/2001 17:14 D	
Compound Methane, dissolved Carbon Dioxide Total Petroleum Hydrocarbons Sulfide Nitrate-Nitrite Nitrogen Kjeldahl Nitrogen (Total) Ammonia Nitrogen Chemical Oxygen Demand Phosphorus (total) TOC (Total Organic Carbon) Sodium Potassium Calcium Magnesium	Test Value 0.00053 20 <2 <0.1 1.7 <0.5 <0.2 36 0.33 7.2 8.2 <5.0 4.8 2.4	Test Unit mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/	Method EPA RSK 175 SM 4500 EPA 418.1 EPA 376.2 EPA 353.1 EPA 351.3 EPA 350.2 EPA 410.4 EPA 365.2 EPA 415.1 EPA 200.7 EPA 200.7 EPA 200.7	0.0005 1 2 0.1 0.05 0.5 0.2 20 0.05 0.1 0.5 5 0.5	11/06/2001 15:00 Analysis Date/Time/Initi 11/13/2001 12:00 SI 11/07/2001 15:00 B 11/16/2001 11:25 D 11/12/2001 14:30 B 11/08/2001 01:28 MI 11/08/2001 01:28 MI 11/08/2001 11:45 11/15/2001 11:30 B 11/14/2001 15:21 B 11/11/2001 17:14 D 11/14/2001 17:14 D 11/14/2001 17:14 D	
Compound Methane, dissolved Carbon Dioxide Total Petroleum Hydrocarbons Sulfide Nitrate-Nitrite Nitrogen Kjeldahl Nitrogen (Total) Ammonia Nitrogen Chemical Oxygen Demand Phosphorus (total) TOC (Total Organic Carbon) Sodium Potassium Calcium Magnesium	Test Value 0.00053 20 <2 <0.1 1.7 <0.5 <0.2 36 0.33 7.2 8.2 <5.0 4.8 2.4 4.5	Test Unit mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/	Method EPA RSK 175 SM 4500 EPA 418.1 EPA 376.2 EPA 353.1 EPA 351.3 EPA 350.2 EPA 410.4 EPA 365.2 EPA 415.1 EPA 200.7 EPA 200.7 EPA 200.7 EPA 200.7	0.0005 1 2 0.1 0.05 0.5 0.2 20 0.05 0.1 0.5 5 0.5 0.5 0.5 0.5 0.5 0.5 0.01	11/06/2001 15:00 Analysis Date/Time/Inition 11/13/2001 12:00 SI 11/07/2001 15:00 BI 11/16/2001 11:25 DI 11/12/2001 11:25 DI 11/08/2001 01:28 MI 11/09/2001 09:10 11/08/2001 11:45 11/15/2001 11:30 BI 11/14/2001 15:21 BI 11/14/2001 17:14 DI	
R1185 000007 P-7 Compound Methane, dissolved Carbon Dioxide Total Petroleum Hydrocarbons Sulfide Nitrate-Nitrite Nitrogen Kjeldahl Nitrogen (Total) Ammonia Nitrogen Chemical Oxygen Demand Phosphorus (total) TOC (Total Organic Carbon) Sodium Potassium Calcium Magnesium Iron Manganese	Test Value 0.00053 20 <2 <0.1 1.7 <0.5 <0.2 36 0.33 7.2 8.2 <5.0 4.8 2.4 4.5 0.09	Test Unit mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/	Method EPA RSK 175 SM 4500 EPA 418.1 EPA 376.2 EPA 353.1 EPA 351.3 EPA 350.2 EPA 410.4 EPA 365.2 EPA 415.1 EPA 200.7 EPA 200.7 EPA 200.7 EPA 200.7 EPA 200.7	0.0005 1 2 0.1 0.05 0.5 0.2 20 0.05 0.1 0.5 5 0.5 0.5 0.5 0.5	11/06/2001 15:00 Analysis Date/Time/Inition 11/13/2001 12:00 SI 11/07/2001 15:00 B 11/16/2001 11:25 D 11/12/2001 14:30 B 11/08/2001 01:28 MI 11/09/2001 09:10 11/08/2001 11:45 11/15/2001 11:30 B 11/14/2001 15:21 B 11/11/2001 17:14 D 11/14/2001 17:14 D 11/14/2001 17:14 D 11/14/2001 17:14 D 11/14/2001 17:14 D 11/14/2001 17:14 D 11/14/2001 17:14 D	
Results 000007 P-7 Compound Methane, dissolved Carbon Dioxide Total Petroleum Hydrocarbons Sulfide Nitrate-Nitrite Nitrogen Kjeldahl Nitrogen (Total) Ammonia Nitrogen Chemical Oxygen Demand Phosphorus (total) TOC (Total Organic Carbon) Sodium Potassium Calcium Magnesium Iron Manganese Arsenic	Test Value 0.00053 20 <2 <0.1 1.7 <0.5 <0.2 36 0.33 7.2 8.2 <5.0 4.8 2.4 4.5 0.09 <0.005	Test Unit mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/	Method EPA RSK 175 SM 4500 EPA 418.1 EPA 376.2 EPA 353.1 EPA 351.3 EPA 350.2 EPA 410.4 EPA 365.2 EPA 415.1 EPA 200.7 EPA 200.7 EPA 200.7 EPA 200.7 EPA 200.7 EPA 200.7 EPA 200.7 EPA 200.7	0.0005 1 2 0.1 0.05 0.5 0.2 20 0.05 0.1 0.5 5 0.5 0.5 0.5 0.5	11/06/2001 15:00 Analysis Date/Time/Init 11/13/2001 12:00 Si 11/07/2001 15:00 B 11/16/2001 11:25 E 11/12/2001 14:30 B 11/08/2001 01:28 Mi 11/09/2001 09:10 11/08/2001 11:45 11/15/2001 11:30 B 11/14/2001 15:21 B 11/11/2001 17:14 E 11/14/2001 17:14 E 11/14/2001 17:14 E 11/14/2001 17:14 E 11/14/2001 17:14 E 11/14/2001 17:14 E 11/14/2001 17:14 E 11/14/2001 17:14 E 11/14/2001 17:14 E 11/14/2001 17:14 E	
Compound Methane, dissolved Carbon Dioxide Total Petroleum Hydrocarbons Sulfide Nitrate-Nitrite Nitrogen Kjeldahl Nitrogen (Total) Ammonia Nitrogen Chemical Oxygen Demand Phosphorus (total) TOC (Total Organic Carbon) Sodium Potassium Calcium Magnesium Iron Manganese Arsenic Cadmium	Test Value 0.00053 20 <2 <0.1 1.7 <0.5 <0.2 36 0.33 7.2 8.2 <5.0 4.8 2.4 4.5 0.09 <0.005 <0.0005	Test Unit mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/	Method EPA RSK 175 SM 4500 EPA 418.1 EPA 376.2 EPA 353.1 EPA 351.3 EPA 350.2 EPA 410.4 EPA 365.2 EPA 415.1 EPA 200.7 EPA 200.7 EPA 200.7 EPA 200.7 EPA 200.7 EPA 200.7 EPA 200.7 EPA 200.7 EPA 200.7 EPA 200.7 EPA 200.7 EPA 200.7	0.0005 1 2 0.1 0.05 0.5 0.2 20 0.05 0.1 0.5 5 0.5 0.5 0.5 0.5	11/06/2001 15:00 Analysis Date/Time/Initi 11/13/2001 12:00 SI 11/07/2001 15:00 B 11/16/2001 11:25 D 11/12/2001 14:30 B 11/08/2001 01:28 MI 11/09/2001 09:10 11/08/2001 11:45 11/15/2001 11:30 B 11/14/2001 15:21 B 11/11/2001 17:14 D 11/14/2001 17:14 D 11/14/2001 17:14 D 11/14/2001 17:14 D 11/14/2001 17:14 D 11/14/2001 17:14 D 11/14/2001 17:14 D 11/14/2001 17:14 D 11/14/2001 17:14 D 11/14/2001 17:14 D 11/14/2001 17:14 D 11/14/2001 17:14 D	
81185 000007 P-7 Compound Methane, dissolved Carbon Dioxide Total Petroleum Hydrocarbons Sulfide Nitrate-Nitrite Nitrogen Kjeldahl Nitrogen (Total) Ammonia Nitrogen Chemical Oxygen Demand Phosphorus (total) TOC (Total Organic Carbon) Sodium Potassium Calcium Magnesium Iron Manganese Arsenic	Test Value 0.00053 20 <2 <0.1 1.7 <0.5 <0.2 36 0.33 7.2 8.2 <5.0 4.8 2.4 4.5 0.09 <0.005	Test Unit mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/	Method EPA RSK 175 SM 4500 EPA 418.1 EPA 376.2 EPA 353.1 EPA 351.3 EPA 350.2 EPA 410.4 EPA 365.2 EPA 415.1 EPA 200.7 EPA 200.7 EPA 200.7 EPA 200.7 EPA 200.7 EPA 200.7 EPA 200.7 EPA 200.7	0.0005 1 2 0.1 0.05 0.5 0.2 20 0.05 0.1 0.5 5 0.5 0.5 0.5 0.5	Sample Date/Time 11/06/2001 15:00 Analysis Date/Time/Initi 11/13/2001 12:00 St 11/07/2001 15:00 B 11/16/2001 11:25 D 11/12/2001 01:28 Mt 11/08/2001 01:28 Mt 11/08/2001 01:28 Mt 11/08/2001 11:45 11/15/2001 11:30 E 11/14/2001 15:21 E 11/11/2001 17:14 D 11/14/2001 17:14 D	

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MARTEL NO. 31185 000007 P-7	CLIENT	SAMPLE IDENT	TIFICATION		Sample Date/Time 11/06/2001 15:00
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initia
	0.012	 mg/l	EPA 239.2	0.005	11/15/2001 07:53 L
Zinc	0.07	mg/l	EPA 200.7	0.01	11/14/2001 17:14 DL
Nickel	0.037	mg/l	EPA 249.2	0.005	11/14/2001 11:46 L
Selenium	<0.005	mg/l	EPA 270.2	0.005	11/15/2001 09:17 L
Bicarbonates (as CaCO3)	<1	mg/l	EPA 310.1	1	11/12/2001 11:20 T
Chloride	25	mg/l	EPA 325.2	2	11/12/2001 13:55 B
Sulfate	9.2	mg/l	EPA 375.3	5	11/19/2001 16:39 CE
Nitrate Nitrogen	1.7	mg/l	EPA 353.1	0.05	11/16/2001 01:28 CE
Nitrite Nitrogen	<0.02	mg/l	EPA 353.1	0.02	11/07/2001 14:30 B
Total Nitrogen	1.7	mg/l	EPA Var	0.05	I
Alkalinity, total (as CaCO3)	 <1	mg/l	EPA 310.1	1	11/12/2001 11:20 T
Solids (Dissolved)	69	mg/l	EPA 160.1	1	11/09/2001 13:07 1
Iron (ferrous)	Indeterminate	_	SM 315B	60	11/15/2001 10:00 L
Iron (Femic by Calculation)	Indeterminate		SM 3500D	60	11/15/2001 10:00 l
MARTEL NO. CLIENT SAMPLE IDENTIFIC			TIFICATION		Sample Date/Time 11/06/2001 15:30
81185 000008 P-8 Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initi
Methane, dissolved		 mg/l	EPA RSK 175	0.0005	11/13/2001 12:00 SU
Carbon Dioxide	14	mg/l	SM 4500	1	11/07/2001 15:00 B
Total Petroleum Hydrocarbons	<2	mg/l	EPA 418.1	2 .	11/16/2001 11:25 D
Sulfide	<0.1	mg/l	EPA 376.2	0.1	11/12/2001 14:30 E
Nitrate-Nitrite Nitrogen	0.18	mg/l	EPA 353.1	0.05	11/08/2001 01:42 MI
Kjeldahl Nitrogen (Total)	<0.5	mg/l	EPA 351.3	0.5	11/09/2001 09:10
Ammonia Nitrogen	<0.2	mg/l	EPA 350.2	0.2	11/08/2001 11:45
Chemical Oxygen Demand	21	mg/l	EPA 410.4	20	11/15/2001 11:30 E
Phosphorus (total)	0.12	mg/l	EPA 365.2	0.05	11/14/2001 15:21 E
TOC (Total Organic Carbon)	3.3	mg/l	EPA 415.1	0.1	11/11/2001 11:00 /
Sodium	7.5	mg/l	EPA 200.7	0.5	11/14/2001 17:18 D
Potassium	<5.0	mg/l	EPA 200.7	5	11/14/2001 17:18 D
Calcium	4.3	mg/l	EPA 200.7	0.5	11/14/2001 17:18 D
Magnesium	0.9	mg/l	EPA 200.7	0.5	11/14/2001 17:18 D
	0.27	mg/l	EPA 200.7	0.01	11/14/2001 17:18 🗅
Iron Manganese	0.07	mg/l	EPA 200.7	0.01	11/14/2001 17:18 🗅
Manganese	<0.005	mg/l	EPA 206.2	0.005	11/15/2001 10:42
Arsenic	<0.005	mg/l	EPA 213.2	0.0005	11/14/2001 09:45
Chamium	<0.005	mg/l	EPA 218.2	0.005	11/14/2001 11:46
Chromium	<0.005	mg/l	EPA 220.2	0.005	11/14/2001 11:46
Copper	<0.005	mg/l	EPA 239.2	0.005	11/15/2001 07:53
Lead	0.03	mg/l	EPA 200.7	0.01	11/14/2001 17:18
Zinc	0.007	mg/l	EPA 249.2	0.005	11/14/2001 11:46
Nickel	<0.007 <0.005	mg/l	EPA 270.2	0.005	11/15/2001 09:17
Selenium	~0.000	mg/i		1	11/12/2001 11:20

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MARTEL NO. 81185 000008 P-8	CLIENT	SAMPLE IDEN	TIFICATION		Sample Date/Time 11/06/2001 15:30
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
	19 —	mg/l	EPA 325.2		11/12/2001 13:55 BM
Sulfate	6.1	mg/l	EPA 375.3	5	11/19/2001 16:52 CB
Nitrate Nitrogen	0.1	mg/l	EPA 353.1	0.05	11/16/2001 01:42 CB
Nitrite Nitrogen	0.08	mg/l	EPA 353.1	0.02	11/07/2001 14:30 B
Total Nitrogen	0.18	mg/l	EPA Var	0.05	1
Alkalinity, total (as CaCO3)	4	mg/l	EPA 310.1	1	11/12/2001 11:20 T
Solids (Dissolved)	48	mg/l	EPA 160.1	1	11/09/2001 13:07 T
Iron (ferrous)	Indeterminate	_	SM 315B	60	11/15/2001 10:00 L
Iron (Ferric by Calculation)	Indeterminate		SM 3500D	60	11/15/2001 10:00 L
MARTEL NO. 81185 000009 P-9	CLIENT	SAMPLE IDEN	TIFICATION		Sample Date/Time 11/06/2001 14:45
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initia
Methane, dissolved	<0.0005	 mg/l	EPA RSK 175	0.0005	11/13/2001 12:00 SU
Carbon Dioxide	25	mg/l	SM 4500	1	11/07/2001 15:00 BT
Total Petroleum Hydrocarbons	<2	mg/l	EPA 418.1	2	11/16/2001 11:25 Dl
Sulfide	<0.1	mg/l	EPA 376.2	0.1	11/12/2001 14:30 B
Nitrate-Nitrite Nitrogen	0.42	mg/l	EPA 353.1	0.05	11/08/2001 01:56 MD
Kjeldahl Nitrogen (Total)	<0.5	mg/l	EPA 351.3	0.5	11/09/2001 09:10 T
Ammonia Nitrogen	<0.2	mg/l	EPA 350.2	0.2	11/08/2001 11:45 T
Chemical Oxygen Demand	<20	mg/l	EPA 410.4	20	11/15/2001 11:30 B
Phosphorus (total)	0.09	mg/l	EPA 365.2	0.05	11/14/2001 15:21 B
TOC (Total Organic Carbon)	1.8	mg/l	EPA 415.1	0.1	11/11/2001 11:00 A
Sodium	8.5	mg/l	EPA 200.7	0.5	11/14/2001 17:22 DI
Potassium	<5.0	mg/l	EPA 200.7	5	11/14/2001 17:22 Di
Calcium	2.8	mg/l	EPA 200.7	0.5 .	11/14/2001 17:22 DI
Magnesium	1.6	mg/l	EPA 200.7	0.5	11/14/2001 17:22 DI
Iron	0.35	mg/l	EPA 200.7	0.01	11/14/2001 17:22 DI
Manganese	0.04	mg/l	EPA 200.7	0.01	11/14/2001 17:22 DI
Arsenic	<0.005	mg/l	EPA 206.2	0.005	11/15/2001 10:42 L
Cadmium	<0.0005	mg/l	EPA 213.2	0.0005	11/14/2001 09:45 L
Chromium	0.007	mg/l	EPA 218.2	0.005	11/14/2001 11:46 L
Copper	<0.005	mg/i	EPA 220.2	0.005	11/14/2001 11:46 L
Lead	<0.005	mg/l	EPA 239.2	0.005	11/15/2001 07:53 L
Zinc	0.03	mg/l	EPA 200.7	0.01	11/14/2001 17:22 DI
Nickel :	0.009	mg/i	EPA 249.2	0.005	11/14/2001 11:46 L
Selenium	<0.005	mg/l	EPA 270.2	0.005	11/15/2001 09:17 L
Bicarbonates (as CaCO3)	<1	mg/l	EPA 310.1	1	11/12/2001 11:20 T
Chloride	22	mg/l	EPA 325.2	2	11/12/2001 13:55 B
Sulfate	11	mg/l	EPA 375.3	5	11/19/2001 17:06 CE
Nitrate Nitrogen	0.4	mg/l	EPA 353.1	0.05	11/16/2001 01:56 CE
Nitrite Nitrogen	<0.02	mg/l	EPA 353.1	0.02	11/07/2001 14:30 B
Total Nitrogen	0.42	mg/l	EPA Var	0.05	,





MARTEL N 81185	O. 000009	P-9	CLIENT	SAMPLE IDEN	TIFICATION		Sample Date/Time 11/06/2001 14:45
Compound			Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Alkalinity, tota	l (as CaCO3)			mg/l	EPA 310.1		11/12/2001 11:20 TB
Solids (Dissol	ved)		62	mg/l	EPA 160.1	1	11/09/2001 13:07 TB
Iron (ferrous)			Indeterminate	·	SM 315B	60	11/15/2001 10:00 LB
Iron (Ferric by	Calculation)		Indeterminate	•	SM 3500D	60	11/15/2001 10:00 LB
MARTEL N 81185	O. 0010TB	Trip Bla		SAMPLE IDEN	TIFICATION		Sample Date/Time 11/06/2001 08:00
Compound		·	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Methane, diss	olved		<0.0005		EPA RSK 175	0.0005	11/13/2001 12:00 SUB

All Procedures used are in accordance with the following methods:

"Methods of Chemical Analysis of Water and Wastewater", EPA 600/4-79/020, U.S. EPA, Cincinnati, Revised March 1983. "Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater", U.S. EPA, Appendix A to 40 CFR Part 136, Vol. 49, No. 209, October 26, 1984. "Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992. **Note:Total Nitrate-Nitrite Nitrogen is the sum of Nitrate and Nitrite analytical results. Total Nitrogen is the sum of Total Nitrate-Nitrite and Kjeldahl Nitrogen analytical results. The ferrous and ferric iron test methods were indeterminate (detection limit of about 60 mg/l) given the relatively low levels of total iron present in the samples.

ac When	Approved Millarl Shing
Date / 11/29/01	Date 11/29/01

CHAIN OF CUSTODY / SAMPLE INFORMATION FORM

81185

Martel Laboratories JDS Inc. • 1025 Cromwell Bridge Road • Baltimore, MD 21286 • (410) 825-7790 • FAX (410) 821-1054

Medared		ic lialitic	_{जर} ्राराजनार है		Sample	or		
Client Nam	e/Phone/FAX				Project	Name/#	Stancill	Quarry Groundwaters
Client Addr	ress							POLITIME
Invoice Ad	dress				Sample	Turnarou	and Time	ROUTINE
Station No./ Sample ID	Station Location	Matrix	Container Description/ Preservation Status	Potentially Hazardous?	# of Containers	Date	Time	Analyses Required/Comments
1	7-1	WATER	40 ml VOA/HCL	NO	3	14601	1036	METHANE
			250 ml amber glass/4C		1			CO2
			liter clear glass/H2S04		1			трн
			250 ml plastic/ZnAcetate/NaOH		1			S3
			500 ml plastic/H2SO4		1			NO32, TKN, NH3, COD, AP, TOC
			liter plastic/HNO3		1			NA, K, CA, MG, FE, MN, AS2, CPD2, CR2, CU2, PB2, NI2, SE2
			1/2 gallon plastic/NONE		1	+	-	HCO3. CL, SO4, NC3, NO2, N, ALK, DS, FEOUS, FERRIC
2	P. Z		(SAME AS SAMPLE 1)		9	11-6	1335	(SAME AS SAMPLE 1)
3	P-3		(SAME AS SAMPLE 1)		9	11-6	1145	(SAME AS SAMPLE 1)
4	P-4		(SAME AS SAMPLE 1)	1.50	9	11.6	1400	(SAME AS SAMPLE 1)
5	P-5		(SAME AS SAMPLE 1)		9	11-6	1115	(SAME AS SAMPLE 1)
4	P-U		(SAME AS SAMPLE 1)		9	11-6	1430	(SAME AS SAMPLE 1)
7	P-7		(SAME AS SAMPLE 1)	1	9	11-4	1500	(SAME AS SAMPLE 1)
Transferre	ed by: 1/ir Kalture	Receiv	ed by:	Date	Time 1815 Time	Sufficien Sample	t Ice? Ye containers	presid? Yes/No If No, explain
Transferre	ed by:	Receiv	ed by:	Date	Time		27th	Carrier to the contract of the carrier of the carri

CHAIN OF CUSTODY / SAMPLE INFORMATION FORM

1 420°42 1.4.	**:	Martel L	aborato	ries JDS		oad •	Baltin	Sample		110) 82	25-7790 • FAX (410) 821-1054
Client Name/Phone/FAX				Project Name/#Stancill Quarry Groundwaters Contract/P.O Number Sample Turnaround TimeROUTINE							
Station No./ Sample ID	aaress	Station Location		Matrix	Container Description/ Preservation Status		ntially	# of Containers	Date	Time	
8	J. Ho	P-8		WATER	40 ml VOA/HCL	N	10	3	11-6	153	METHANE
					250 ml amber glass/4C			1			CO2
					liter clear glass/H2S04			1			ТРН
					250 ml plastic/ZnAcetate/NaOH			1			S3
1 4					500 ml plastic/H2SO4			1			NO32, TKN, NH3, COD, AP, TOC
		ξ. , y	+4		liter plastic/HNO3		-	1	2:		NA, K, CA, MG, FE, MN, AS2, CFD2, CR2, CU2, PB2, 7 NI2, SE2
		SAMPARE BY PAR		164 1624 1 113	1/2 gallon plastic/NONE			1.	di V:		HCO3. CL, 804, NOS, NO2, N, ALK, DS, FEOUS,
9			1.11	,	(SAME AS SAMPLE 1)	111	1 12	11.9	11-4	144	(SAME AS SAMPLE 1)
10	L. UNASE	10 Black	elt.		(SAME AS SAMPLE 1)	127	: 11	9	11 14:	1 44	
1.1		in Hill	1		(SAME AS SAMPLE 1)			9			(SAME AS SAMPLE 1)
10,414 24	A company			# 11 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(SAME AS SAMPLE 1)	12-0	#37 4	9		11	Pari il Comerchia antrophia i de fan
	1 0	C-1003	*		(SAME AS SAMPLE 1)		,	9		1 64.	(SAME AS SAMPLE 1)
. ,	4 4		16 11	₩ 3	(SAME AS SAMPLE,1)	1	推	9	e His .		(SAME AS SAMPLE 1)
Transfer	ed by:	thurse	111:	Recely	od by	Date	0-01	Time 1815	Sufficient		cooler Receipt Information (LAB USE ONLY) - Yes/No If No, temp.=
Transferr	ed by:	· · · · ·	2/1	Receiv	ed by:	Date		Time	Sample of	containe	ners pres'd? - Yes/No If No, explain present/intact? - Yes/No
Transferr	ed by:	- H	\$ F 2 F 2 F 3	Receiv	ed by:	Date	4 1	Time	Initials: P	ATC	Dale: 11 V 61
g:\mg-sha	relexcel\c	ockce	Me					, i		1	Ai .



REPORT OF ANALYSIS

Maryland Environmental Svc 2011 Commerce Park Drive

Order #: 02-02-812 Date: 03/13/02 16:37

Annapolis, MD 21401

Work ID: Furnace Bay GW Study-Soils

Date Received: 02/20/02

Date Completed: 03/13/02

Attn: Mr. Rex A. Lloyd

Purchase Order: 98-04-11/1-01 Act:2170292

Invoice Number:

Client Code: MES_AB

SAMPLE IDENTIFICATION

Sample	Sample	Sample	Sample
Number	Description	Number	Description
01	SS122002	03	SS222002 dup
02	SS222002	04	SS322002

This cover page is an integral part of the analytical report that follows.

> Certified By Warren Van Arsdall

RECEIVED

MAR 1 8 2002

Maryland Environmental Service 03

Sample: 01A SS122002 Category: SOIL

Collected: 02/20/02 09:36

Test Description	Result	Det Limit	<u>Units</u> By	Analyzed Dt/Tm
Solid Waste, water extract	02/22/02	date ext	racted JPG	
TCLP Extraction	02/22/02	date ext	racted JPG	
TCLP, Zero Headspace Ext	02/22/02	data ext	racted JPG	

Sample: 01B SS122002 TCLP Category: SOIL

Collected: 02/20/02 09:36

Test Description	<u>Result</u>	<u>Det Limit</u>	<u>Units</u>	<u>By</u>	Analyzed Dt/Tm
Alkalinity, Bicarbonate	170	1.0	mg/L as CaCO3	BCJ	03/06/02 13:00
Carbon dioxide, free	1.0	•	mg/L as CO2	REP	02/22/02 12:45
Chloride, Ion Chrom	ND	0.39	mg/L	MSO	02/22/02 17:21
Ferrous Iron	ND	0.02	mg/L	BLT	02/28/02 07:15
Ion chromatography	02/22/02		date complete		
Nitrate, Ion Chrom	2.14	0.06	mg/L as N	MSO	02/22/02 17:21
Nitrate/Nitrite-Ion Chrom	2.14	0.08	mg/L as N	MSO	02/22/02 17:21
Solids, Total Dissolved	4262	10	mg/L	MS	02/26/02 13:24
Sulfate, Ion Chrom	91.5	0.38	mg/L	MSO	02/22/02 17:21
Total Alkalinity-Titration	170	1.0	mg/L as CaCO3	BCJ	03/06/02 13:00

Sample: 01C SS122002 TCLP Category: SOIL

Collected: 02/20/02 09:36

Test Description	<u>Result</u>	<u>Det Limit</u>	<u>Units</u> B	By <u>Analyzed</u>	Dt/Tm
Ammonia, Automated Phenate	0.28	0.20	mg/L as N K	KS 02/26/02	11:18
Chemical Oxygen Demand	5440	10	mg/L K	KS 03/05/02	10:25
Digestion, TKN/Total P	02/28/02		date prepared		
Phosphorous, Total	0.06	0.02	mg/L as P M	MVP 03/01/02	10:17
Total Kjeldahl Nitrogen	1.4	0.20	mg/L as N M	MVP 03/01/02	10:17
Total Nitrogen	3.5	0.20	mg/L as N M	MVP 03/01/02	10:17
Total Organic Carbon, Aq	1894	100	mg/L K	KS 02/28/02	15:56

Sample: 01D SS122002 TCLP Category: SOIL

Collected: 02/20/02 09:36

Test Description	Result	Det Limit		Units	Вv	Analyzed	Dt./Tm
Test Description		DCC HIMIC					
Metals, ICP/MS	02/26/02		date	analyzed	JTH	02/26/02	15:09
TCLP, Arsenic	02/26/02		date	analyzed			
TCLP, Cadmium	02/26/02		date	analyzed			
TCLP, Calcium	02/26/02		date	complete			
TCLP, Chromium	02/26/02		date	analyzed			
TCLP, Copper	02/26/02		date	$\verb"analyzed"$			
TCLP, Iron	02/26/02		date	${\tt analyzed}$			
TCLP, Lead	02/26/02		date	analyzed			
TCLP, Magnesium	02/26/02		date	analyzed			
TCLP, Manganese	02/26/02		date	analyzed			
TCLP, Nickel	02/26/02		date	analyzed			
TCLP, Potassium	02/26/02		date	analyzed			

Test Description	Result	Det Limit	Units By Analyzed Dt/Tm
TCLP, Selenium	02/26/02		date analyzed
TCLP, Sodium	02/26/02		date analyzed
TCLP, Zinc	02/26/02		date analyzed
·			
Sample: 01E SS122002 TCLP			Category: SOIL
Collected: 02/20/02 09:36			
	_		The second secon
Test Description		Det Limit	
Tot. Pet. Hyd., Grav, 1664	21	5.5	mg/L KSC 10/10/02 08:30
			Cohomoro COTI
Sample: 01F SS122002 TCLP			Category: SOIL
Collected: 02/20/02 09:36			
m t. D	Dogult.	Dot Limit	Units By Analyzed Dt/Tm
Test Description	<u>Result</u> ND	Det Limit 0.03	mg/L MSO 02/27/02 09:45
Sulfide, colorimetric	ND	0.03	mg/ 11.50 02/ 27/ 02 03/15
Sample: 01H SS122002 ASTM leach	•		Category: SOIL
Collected: 02/20/02 09:36	•		2233271 2322
Coffeeded: 02/20/02 03:30			
Test Description	Result	Det Limit	Units By Analyzed Dt/Tm
Metals, ICP/OES	03/01/02		date analyzed
Sodium, ICP	2.76	0.20	mg/L LC 03/01/02 10:24
boaram, rer			3 ,
Sample: 011 SS122002 ASTM leac	n.		Category: SOIL
	n		Category: SOIL
Sample: 01I SS122002 ASTM leach Collected: 02/20/02 09:36	n		Category: SOIL
	n <u>Result</u>	<u>Det Limit</u>	<u> Units By Analyzed Dt/Tm</u>
Collected: 02/20/02 09:36		Det Limit	Units By Analyzed Dt/Tm mg/L as CaCO3 BLT 02/26/02 09:05
Collected: 02/20/02 09:36 Test Description	<u>Result</u>		Units By Analyzed Dt/Tm mg/L as CaCO3 BLT 02/26/02 09:05 mg/L as CO2 REP 03/13/02 14:45
Collected: 02/20/02 09:36 Test Description Alkalinity, Bicarbonate	<u>Result</u> 4		mg/L as CO2 REP 03/13/02 14:45 mg/L EL 02/22/02 13:27
Collected: 02/20/02 09:36 Test Description Alkalinity, Bicarbonate Carbon dioxide, free	<u>Result</u> 4 <1.25	1.0	mg/L as CO2 REP 02/22/02 13:27 mg/L by Analyzed Dt/Tm 02/26/02 09:05 mg/L by 03/13/02 14:45 mg/L by 02/22/02 13:27
Collected: 02/20/02 09:36 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen	Result 4 <1.25 6.10	1.0	mg/L as CaCO3 BLT 02/26/02 09:05 mg/L as CO2 REP 03/13/02 14:45 mg/L EL 02/22/02 13:27 mV BLT 02/25/02 umhos at 25C BCJ 02/27/02 13:50
Collected: 02/20/02 09:36 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen Redox Potential of Water	Result 4 <1.25 6.10 155	1.0	mg/L as CaCO3 BLT 02/26/02 09:05 mg/L as CO2 REP 03/13/02 14:45 mg/L EL 02/22/02 13:27 mV BLT 02/25/02 umhos at 25C BCJ 02/27/02 13:50 mg/L as CaCO3 BLT 02/26/02 09:05
Collected: 02/20/02 09:36 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen Redox Potential of Water Specific Conductance	Result 4 <1.25 6.10 155 212	1.0	mg/L as CaCO3 BLT 02/26/02 09:05 mg/L as CO2 REP 03/13/02 14:45 mg/L EL 02/22/02 13:27 mV BLT 02/25/02 umhos at 25C BCJ 02/27/02 13:50
Collected: 02/20/02 09:36 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen Redox Potential of Water Specific Conductance Total Alkalinity-Titration	Result 4 <1.25 6.10 155 212 4	1.0 1.0 1.08 1.0	Mg/L as CaCO3 BLT 02/26/02 09:05 mg/L as CO2 REP 03/13/02 14:45 mg/L EL 02/22/02 13:27 mV BLT 02/25/02 umhos at 25C BCJ 02/27/02 13:50 mg/L as CaCO3 BLT 02/26/02 09:05 pH Units BLT 02/26/02 08:30
Collected: 02/20/02 09:36 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH Sample: 01J SS122002 ASTM leace	Result 4 <1.25 6.10 155 212 4 6.31	1.0 1.0 1.08 1.0	mg/L as CaCO3 BLT 02/26/02 09:05 mg/L as CO2 REP 03/13/02 14:45 mg/L EL 02/22/02 13:27 mV BLT 02/25/02 umhos at 25C BCJ 02/27/02 13:50 mg/L as CaCO3 BLT 02/26/02 09:05
Collected: 02/20/02 09:36 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH	Result 4 <1.25 6.10 155 212 4 6.31	1.0 1.0 1.08 1.0	Mg/L as CaCO3 BLT 02/26/02 09:05 mg/L as CO2 REP 03/13/02 14:45 mg/L EL 02/22/02 13:27 mV BLT 02/25/02 umhos at 25C BCJ 02/27/02 13:50 mg/L as CaCO3 BLT 02/26/02 09:05 pH Units BLT 02/26/02 08:30
Collected: 02/20/02 09:36 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH Sample: 01J SS122002 ASTM leac Collected: 02/20/02 09:36	Result 4 <1.25 6.10 155 212 4 6.31	1.0 1.08 1.0 0.5	Units By Analyzed Dt/Tm mg/L as CaCO3 BLT 02/26/02 09:05 mg/L as CO2 REP 03/13/02 14:45 mg/L EL 02/22/02 13:27 mV BLT 02/25/02 umhos at 25C BCJ 02/27/02 13:50 mg/L as CaCO3 BLT 02/26/02 09:05 pH Units BLT 02/26/02 08:30 Category: SOIL
Collected: 02/20/02 09:36 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH Sample: 01J SS122002 ASTM lead Collected: 02/20/02 09:36 Test Description	Result 4 <1.25 6.10 155 212 4 6.31 h	1.0 1.08 1.0 0.5	Mg/L as CaCO3 BLT 02/26/02 09:05 mg/L as CO2 REP 03/13/02 14:45 mg/L EL 02/22/02 13:27 mV BLT 02/25/02 umhos at 25C BCJ 02/27/02 13:50 mg/L as CaCO3 BLT 02/26/02 09:05 pH Units BLT 02/26/02 08:30 Category: SOIL Units By Analyzed Dt/Tm
Collected: 02/20/02 09:36 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH Sample: 01J SS122002 ASTM leac Collected: 02/20/02 09:36 Test Description Chemical Oxygen Demand	Result 4 <1.25 6.10 155 212 4 6.31 h	1.0 1.08 1.0 0.5	Mg/L as CaCO3 BLT 02/26/02 09:05 mg/L as CO2 REP 03/13/02 14:45 mg/L EL 02/22/02 13:27 mV BLT 02/25/02 umhos at 25C BCJ 02/27/02 13:50 mg/L as CaCO3 BLT 02/26/02 09:05 pH Units BLT 02/26/02 08:30 Category: SOIL Units By Analyzed Dt/Tm mg/L KS 02/28/02 11:05
Collected: 02/20/02 09:36 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH Sample: 01J SS122002 ASTM lead Collected: 02/20/02 09:36 Test Description	Result 4 <1.25 6.10 155 212 4 6.31 h	1.0 1.08 1.0 0.5	Mg/L as CaCO3 BLT 02/26/02 09:05 mg/L as CO2 REP 03/13/02 14:45 mg/L EL 02/22/02 13:27 mV BLT 02/25/02 umhos at 25C BCJ 02/27/02 13:50 mg/L as CaCO3 BLT 02/26/02 09:05 pH Units BLT 02/26/02 08:30 Category: SOIL Units By Analyzed Dt/Tm
Collected: 02/20/02 09:36 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH Sample: 01J SS122002 ASTM lead Collected: 02/20/02 09:36 Test Description Chemical Oxygen Demand Total Organic Carbon, Aq	Result 4 <1.25 6.10 155 212 4 6.31 h Result ND 2.3	1.0 1.08 1.0 0.5	Units By Analyzed Dt/Tm mg/L as CaCO3 BLT 02/26/02 09:05 mg/L as CO2 REP 03/13/02 14:45 mg/L EL 02/22/02 13:27 mV BLT 02/25/02 umhos at 25C BCJ 02/27/02 13:50 mg/L as CaCO3 BLT 02/26/02 09:05 pH Units BLT 02/26/02 08:30 Category: SOIL Units By Analyzed Dt/Tm mg/L KS 02/28/02 11:05 mg/L KS 02/26/02 10:48
Collected: 02/20/02 09:36 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH Sample: 01J SS122002 ASTM leac Collected: 02/20/02 09:36 Test Description Chemical Oxygen Demand Total Organic Carbon, Aq Sample: 01K SS122002 ASTM leac	Result 4 <1.25 6.10 155 212 4 6.31 h Result ND 2.3	1.0 1.08 1.0 0.5	Mg/L as CaCO3 BLT 02/26/02 09:05 mg/L as CO2 REP 03/13/02 14:45 mg/L EL 02/22/02 13:27 mV BLT 02/25/02 umhos at 25C BCJ 02/27/02 13:50 mg/L as CaCO3 BLT 02/26/02 09:05 pH Units BLT 02/26/02 08:30 Category: SOIL Units By Analyzed Dt/Tm mg/L KS 02/28/02 11:05
Collected: 02/20/02 09:36 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH Sample: 01J SS122002 ASTM lead Collected: 02/20/02 09:36 Test Description Chemical Oxygen Demand Total Organic Carbon, Aq	Result 4 <1.25 6.10 155 212 4 6.31 h Result ND 2.3	1.0 1.08 1.0 0.5	Units By Analyzed Dt/Tm mg/L as CaCO3 BLT 02/26/02 09:05 mg/L as CO2 REP 03/13/02 14:45 mg/L EL 02/22/02 13:27 mV BLT 02/25/02 umhos at 25C BCJ 02/27/02 13:50 mg/L as CaCO3 BLT 02/26/02 09:05 pH Units BLT 02/26/02 08:30 Category: SOIL Units By Analyzed Dt/Tm mg/L KS 02/28/02 11:05 mg/L KS 02/26/02 10:48
Collected: 02/20/02 09:36 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH Sample: 01J SS122002 ASTM leac Collected: 02/20/02 09:36 Test Description Chemical Oxygen Demand Total Organic Carbon, Aq Sample: 01K SS122002 ASTM leac Collected: 02/20/02 09:36	Result 4 <1.25 6.10 155 212 4 6.31 h Result ND 2.3	1.0 1.08 1.0 0.5	Units By Analyzed Dt/Tm mg/L as CaCO3 BLT 02/26/02 09:05 mg/L as CO2 REP 03/13/02 14:45 mg/L EL 02/22/02 13:27 mV BLT 02/25/02 umhos at 25C BCJ 02/27/02 13:50 mg/L as CaCO3 BLT 02/26/02 09:05 pH Units BLT 02/26/02 08:30 Category: SOIL Units By Analyzed Dt/Tm mg/L KS 02/28/02 11:05 mg/L KS 02/26/02 10:48 Category: SOIL
Collected: 02/20/02 09:36 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH Sample: 01J SS122002 ASTM leac Collected: 02/20/02 09:36 Test Description Chemical Oxygen Demand Total Organic Carbon, Aq Sample: 01K SS122002 ASTM leac	Result 4 <1.25 6.10 155 212 4 6.31 h Result ND 2.3	1.0 1.08 1.0 0.5	Units By Analyzed Dt/Tm mg/L as CaCO3 BLT 02/26/02 09:05 mg/L as CO2 REP 03/13/02 14:45 mg/L EL 02/22/02 13:27 mV BLT 02/25/02 umhos at 25C BCJ 02/27/02 13:50 mg/L as CaCO3 BLT 02/26/02 09:05 pH Units BLT 02/26/02 08:30 Category: SOIL Units By Analyzed Dt/Tm mg/L KS 02/28/02 11:05 mg/L KS 02/26/02 10:48 Category: SOIL

Sample: 02A SS222002 Category: SOIL

Collected: 02/20/02 10:00

Test Description	Result	<u>Det Limit</u>	<u>Units</u> By	Analyzed Dt/Tm
Solid Waste, water extract	02/26/02	date	extracted JK	
TCLP Extraction	02/26/02	date	extracted JK	
TCLP, Zero Headspace Ext	02/26/02	data	extracted JK	

Sample: 02B SS222002 TCLP Category: SOIL

Collected: 02/20/02 10:00

Test Description	Result	Det Limit	<u>Units</u> By Analyzed Dt/Tm
Alkalinity, Bicarbonate	165	1.0	mg/L as CaCO3 BCJ 03/06/02 13:00
Carbon dioxide, free	<1.25		mg/L as CO2 REP 03/13/02 14:45
Chloride, Ion Chrom	24.8	0.39	mg/L MSO 02/26/02 14:18
Ferrous Iron	ND	0.02	mg/L BLT 02/28/02 07:15
Ion chromatography	02/26/02		date complete
Nitrate, Ion Chrom	ND	0.06	mg/L as N MSO 02/26/02 14:18
Nitrite, Ion Chrom	ND	0.02	mg/L as N MSO 02/26/02 14:18
Solids, Total Dissolved	4402	10	mg/L MS 02/26/02 13:24
Sulfate, Ion Chrom	129	0.38	mg/L MSO 02/26/02 14:18
Total Alkalinity-Titration	165	1.0	mg/L as CaCO3 BCJ 03/06/02 13:00

Sample: 02C SS22202 TCLP Category: SOIL Collected: 02/20/02 10:00

Test Description	<u>Result</u>	<u>Det Limit</u>	Units By Analyzed Dt/Tm
Ammonia, Automated Phenate	0.46	0.20	mg/L as N KS 02/26/02 11:18
Chemical Oxygen Demand	5630	10	mg/L KS 03/05/02 10:25
Digestion, TKN/Total P	02/28/02		date prepared
Phosphorous, Total	0.05	0.02	mg/L as P MVP 03/01/02 10:17
Total Kjeldahl Nitrogen	0.85	0.20	mg/L as N MVP 03/01/02 10:17
Total Nitrogen	0.85	0.20	mg/L as N MVP 03/01/02 10:17
Total Organic Carbon, Aq	1943	100	mg/L KS 02/28/02 15:56

Sample: 02D SS222002 TCLP Category: SOIL Collected: 02/20/02 10:00

Test Description Metals, ICP/MS TCLP, Arsenic TCLP, Cadmium TCLP, Calcium TCLP, Chromium TCLP, Copper	Result Det Lin 02/26/02 02/26/02 02/26/02 02/26/02 02/26/02 02/26/02	date analyzed date analyzed date analyzed date analyzed date analyzed date analyzed date analyzed date analyzed date analyzed date analyzed date analyzed
TCLP, Iron TCLP, Lead TCLP, Magnesium TCLP, Manganese TCLP, Nickel TCLP, Potassium	02/26/02 02/26/02 02/26/02 02/26/02 02/26/02 02/26/02	date analyzed date analyzed date analyzed date analyzed date analyzed date analyzed

Test Description TCLP, Selenium TCLP, Sodium TCLP, Zinc	Result 02/26/02 02/26/02 02/26/02	<u>Det Limit</u>	Units By Analyzed Dt/Tm date analyzed date analyzed date analyzed
Sample: 02E SS222002 TCLP Collected: 02/20/02 10:00			Category: SOIL
Test Description Tot. Pet. Hyd., Grav, 1664	Result ND	Det Limit 5	Units By Analyzed Dt/Tm mg/L KSC 02/27/02 10:15
Sample: 02F SS222002 TCLP Collected: 02/20/02 10:00			Category: SOIL
Test Description Sulfide, colorimetric	Result ND	Det Limit 0.03	Units By Analyzed Dt/Tm mg/L MSO 02/27/02 09:45
Sample: 02H SS222002 leach Collected: 02/20/02 10:00			Category: SOIL
Test Description Metals, ICP/OES Sodium, ICP	<u>Result</u> 03/05/02 9.60	Det Limit 0.20	Units By Analyzed Dt/Tm date analyzed mg/L LC 03/05/02 09:22
Sample: 02I SS222002 leach Collected: 02/20/02 10:00			Category: SOIL
Collected: 02/20/02 10:00 Test Description Alkalinity, Bicarbonate Carbon dioxide, free	Result 1.0 2.5 5.82	Det Limit 1.0	Mg/L as CO2 REP 02/26/02 13:20 mg/L JK 02/26/02 11:50
Collected: 02/20/02 10:00 Test Description Alkalinity, Bicarbonate	1.0	1.0	<u>Units</u> By <u>Analyzed Dt/Tm</u> mg/L as CaCO3 BCJ 03/06/02 13:00 mg/L as CO2 REP 02/26/02 13:20
Collected: 02/20/02 10:00 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen Redox Potential of Water Specific Conductance Total Alkalinity-Titration	1.0 2.5 5.82 147 269 1.0	1.0 1.0 1.08 1.0	mg/L as CaCO3 BCJ 03/06/02 13:00 mg/L as CO2 REP 02/26/02 13:20 mg/L JK 02/26/02 11:50 mW BLT 02/27/02 umhos at 25C BCJ 02/27/02 13:50 mg/L as CaCO3 BCJ 03/06/02 13:00
Collected: 02/20/02 10:00 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH Sample: 02J SS222002 leach Collected: 02/20/02 10:00 Test Description Chemical Oxygen Demand Total Organic Carbon, Aq	1.0 2.5 5.82 147 269 1.0	1.0 1.08 1.0 0.5	Units By Analyzed Dt/Tm mg/L as CaCO3 BCJ 03/06/02 13:00 mg/L as CO2 REP 02/26/02 13:20 mg/L JK 02/26/02 11:50 mV BLT 02/27/02 umhos at 25C BCJ 02/27/02 13:50 mg/L as CaCO3 BCJ 03/06/02 13:00 pH Units BLT 03/04/02 11:35 Category: SOIL Units By Analyzed Dt/Tm mg/L KS 02/28/02 11:05 mg/L KS 02/28/02 15:56
Collected: 02/20/02 10:00 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH Sample: 02J SS222002 leach Collected: 02/20/02 10:00 Test Description Chemical Oxygen Demand	1.0 2.5 5.82 147 269 1.0 6.16	1.0 1.08 1.0 0.5	### Miles Manalyzed Dt/Tm

Sample: 03A SS222002 dup Category: SOIL

Collected: 02/20/02 10:00

Test Description	<u>Result</u>	Det Limit Units By	Analyzed Dt/Tm
Solid Waste, water extract	02/26/02	date extracted JK	
TCLP Extraction	02/26/02	date extracted JK	
TCLP, Zero Headspace Ext	02/26/02	data extracted JK	

Sample: 03B SS222002 dup TCLP Category: SOIL

Collected: 02/20/02 10:00

Test Description	<u>Result</u>	Det Limit	Units By Analyzed Dt/Tm
Alkalinity, Bicarbonate	130	1.0	mg/L as CaCO3 BCJ 03/06/02 13:00
Carbon dioxide, free	<1.25		mg/L as CO2 REP 03/13/02 14:45
Chloride, Ion Chrom	19.4	0.39	mg/L MSO 02/26/02 14:29
Ferrous Iron	ND	0.02	mg/L BLT 02/28/02 07:15
Ion chromatography	02/26/02		date complete
Nitrate, Ion Chrom	ND	0.06	mg/L as N MSO 02/26/02 14:29
Nitrite, Ion Chrom	ND	0.02	mg/L as N MSO 02/26/02 14:29
Solids, Total Dissolved	4394	10	mg/L MS 02/26/02 13:24
Sulfate, Ion Chrom	120	0.38	mg/L MSO 02/26/02 14:29
Total Alkalinity-Titration	130	1.0	mg/L as CaCO3 BCJ 03/06/02 13:00

Sample: 03C SS222002 dup TCLP Category: SOIL

Collected: 02/20/02 10:00

Test Description	Result	Det Limit	<u>Units</u> By	Analyzed Dt/Tm
Ammonia, Automated Phenate	0.21	0.20	mg/L as N KS	02/26/02 11:18
Chemical Oxygen Demand	5450	10	mg/L KS	03/05/02 10:25
Digestion, TKN/Total P	02/28/02		date prepared	
Phosphorous, Total	0.05	0.02	mg/L as P MVP	03/01/02 10:17
Total Kjeldahl Nitrogen	0.70	0.20	mg/L as N MVP	03/01/02 10:17
Total Nitrogen	0.70	0.20	mg/L as N MVP	03/01/02 10:17
Total Organic Carbon, Aq	1947	100	mg/L KS	02/28/02 15:56

Sample: 03D SS222002 dup TCLP . Category: SOIL

Collected: 02/20/02 10:00

Test Description	Result	<u>Det Limit</u>		<u>Units</u>	<u>By</u>	Analyzed	Dt/Tm
Metals, ICP/MS	02/26/02		date	${\tt analyzed}$	JTH	02/26/02	19:59
TCLP, Arsenic	02/26/02		date	${\tt analyzed}$			
TCLP, Cadmium	02/26/02		date	${\tt analyzed}$			
TCLP, Calcium	02/26/02		date	complete			
TCLP, Chromium	02/26/02		date	${\tt analyzed}$			
TCLP, Copper	02/26/02		date	analyzed	•		
TCLP, Iron	02/26/02		date	analyzed			
TCLP, Lead	02/26/02		date	analyzed			
TCLP, Magnesium	02/26/02		date	analyzed			
TCLP, Manganese	02/26/02		date	analyzed			
TCLP, Nickel	02/26/02		date	analyzed			
TCLP, Potassium	02/26/02		date	analyzed			

Test Description	Result	<u>Det Limit</u>	Units By Analyzed Dt/Tm
TCLP, Selenium	02/26/02		date analyzed
TCLP, Sodium	02/26/02		date analyzed
TCLP, Zinc	02/26/02		date analyzed
Sample: 03E SS222002 dup TCLP Collected: 02/20/02 10:00			Category: SOIL
Coffected: 02/20/02 10:00			
Test Description	Result	Det Limit	Units By Analyzed Dt/Tm
Tot. Pet. Hyd., Grav, 1664	ND	5	mg/L KSC 02/27/02 10:15
2001 0001 107 211, 2211 , 211			-
Sample: 03F SS222002 dup TCLP Collected: 02/20/02 10:00		,	Category: SOIL
Test Description	Result	Det Limit	Units By Analyzed Dt/Tm
Sulfide, colorimetric	ND	0.03	mg/L MSO 02/27/02 09:45
Suffice, Colorimetric		0.00	
Sample: 03H SS222002 dup leach			Category: SOIL
Collected: 02/20/02 10:00			
30220000 02,20,02 2000			
Test Description	Result	Det Limit	Units By Analyzed Dt/Tm
Metals, ICP/OES	03/05/02		date analyzed
Sodium, ICP	14.0	0.20	mg/L LC 03/05/02 09:25
Sample: 03I SS222002 dup leach			Category: SOIL
Sample: 03I SS222002 dup leach Collected: 02/20/02 10:00			Category: SOIL
_			
_	<u>Result</u>	Det Limit	. <u>Units By Analyzed Dt/Tm</u>
Collected: 02/20/02 10:00	Result 1.0	Det Limit	Units By Analyzed Dt/Tm mg/L as CaCO3 BCJ 03/06/02 13:00
Collected: 02/20/02 10:00 Test Description			Units By Analyzed Dt/Tm mg/L as CaCO3 BCJ 03/06/02 13:00 mg/L as CO2 REP 02/26/02 13:20
Collected: 02/20/02 10:00 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen	1.0		mg/L as CO2 REP 02/26/02 13:20 mg/L JK 02/26/02 11:50
Collected: 02/20/02 10:00 Test Description Alkalinity, Bicarbonate Carbon dioxide, free	1.0	1.0	mg/L as CO2 REP 02/26/02 13:20 mg/L JK 02/26/02 11:50 mV BLT 02/27/02
Collected: 02/20/02 10:00 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen	1.0 3.75 5.74	1.0	mg/L as CaCO3 BCJ 03/06/02 13:00 mg/L as CO2 REP 02/26/02 13:20 mg/L JK 02/26/02 11:50 mV BLT 02/27/02 umhos at 25C BCJ 02/27/02 13:50
Collected: 02/20/02 10:00 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen Redox Potential of Water	1.0 3.75 5.74 153	1.0 1.0 1.08 1.0	mg/L as CaCO3 BCJ 03/06/02 13:00 mg/L as CO2 REP 02/26/02 13:20 mg/L JK 02/26/02 11:50 mV BLT 02/27/02 umhos at 25C BCJ 02/27/02 13:50 mg/L as CaCO3 BCJ 03/06/02 13:00
Collected: 02/20/02 10:00 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen Redox Potential of Water Specific Conductance	1.0 3.75 5.74 153 260	1.0	mg/L as CaCO3 BCJ 03/06/02 13:00 mg/L as CO2 REP 02/26/02 13:20 mg/L JK 02/26/02 11:50 mV BLT 02/27/02 umhos at 25C BCJ 02/27/02 13:50
Collected: 02/20/02 10:00 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH	1.0 3.75 5.74 153 260 1.0	1.0 1.0 1.08 1.0	Mg/L as CaCO3 BCJ 03/06/02 13:00 mg/L as CO2 REP 02/26/02 13:20 mg/L JK 02/26/02 11:50 mV BLT 02/27/02 umhos at 25C BCJ 02/27/02 13:50 mg/L as CaCO3 BCJ 03/06/02 13:00 pH Units BLT 03/04/02 11:35
Collected: 02/20/02 10:00 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH Sample: 03J SS222002 dup leach	1.0 3.75 5.74 153 260 1.0	1.0 1.0 1.08 1.0	mg/L as CaCO3 BCJ 03/06/02 13:00 mg/L as CO2 REP 02/26/02 13:20 mg/L JK 02/26/02 11:50 mV BLT 02/27/02 umhos at 25C BCJ 02/27/02 13:50 mg/L as CaCO3 BCJ 03/06/02 13:00
Collected: 02/20/02 10:00 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH	1.0 3.75 5.74 153 260 1.0	1.0 1.0 1.08 1.0	Mg/L as CaCO3 BCJ 03/06/02 13:00 mg/L as CO2 REP 02/26/02 13:20 mg/L JK 02/26/02 11:50 mV BLT 02/27/02 umhos at 25C BCJ 02/27/02 13:50 mg/L as CaCO3 BCJ 03/06/02 13:00 pH Units BLT 03/04/02 11:35
Collected: 02/20/02 10:00 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH Sample: 03J SS222002 dup leach Collected: 02/20/02 10:00	1.0 3.75 5.74 153 260 1.0 6.15	1.0 1.08 1.0 0.5	Units By Analyzed Dt/Tm mg/L as CaCO3 BCJ 03/06/02 13:00 mg/L as CO2 REP 02/26/02 13:20 mg/L JK 02/26/02 11:50 mV BLT 02/27/02 umhos at 25C BCJ 02/27/02 13:50 mg/L as CaCO3 BCJ 03/06/02 13:00 pH Units BLT 03/04/02 11:35 Category: SOIL
Collected: 02/20/02 10:00 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH Sample: 03J SS222002 dup leach Collected: 02/20/02 10:00 Test Description	1.0 3.75 5.74 153 260 1.0 6.15	1.0 1.08 1.0 0.5	Units By Analyzed Dt/Tm mg/L as CaCO3 BCJ 03/06/02 13:00 mg/L as CO2 REP 02/26/02 13:20 mg/L JK 02/26/02 11:50 mV BLT 02/27/02 umhos at 25C BCJ 02/27/02 13:50 mg/L as CaCO3 BCJ 03/06/02 13:00 pH Units BLT 03/04/02 11:35 Category: SOIL Units By Analyzed Dt/Tm
Collected: 02/20/02 10:00 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH Sample: 03J SS222002 dup leach Collected: 02/20/02 10:00 Test Description Chemical Oxygen Demand	1.0 3.75 5.74 153 260 1.0 6.15	1.0 1.08 1.0 0.5	Mg/L as CaCO3 BCJ 03/06/02 13:00 mg/L as CO2 REP 02/26/02 13:20 mg/L JK 02/26/02 11:50 mV BLT 02/27/02 umhos at 25C BCJ 02/27/02 13:50 mg/L as CaCO3 BCJ 03/06/02 13:00 pH Units BLT 03/04/02 11:35 Category: SOIL Units By Analyzed Dt/Tm mg/L KS 02/28/02 11:05
Collected: 02/20/02 10:00 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH Sample: 03J SS222002 dup leach Collected: 02/20/02 10:00 Test Description	1.0 3.75 5.74 153 260 1.0 6.15	1.0 1.08 1.0 0.5	Units By Analyzed Dt/Tm mg/L as CaCO3 BCJ 03/06/02 13:00 mg/L as CO2 REP 02/26/02 13:20 mg/L JK 02/26/02 11:50 mV BLT 02/27/02 umhos at 25C BCJ 02/27/02 13:50 mg/L as CaCO3 BCJ 03/06/02 13:00 pH Units BLT 03/04/02 11:35 Category: SOIL Units By Analyzed Dt/Tm
Collected: 02/20/02 10:00 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH Sample: 03J SS222002 dup leach Collected: 02/20/02 10:00 Test Description Chemical Oxygen Demand Total Organic Carbon, Aq	1.0 3.75 5.74 153 260 1.0 6.15	1.0 1.08 1.0 0.5	Units By Analyzed Dt/Tm mg/L as CaCO3 BCJ 03/06/02 13:00 mg/L as CO2 REP 02/26/02 13:20 mg/L JK 02/26/02 11:50 mV BLT 02/27/02 umhos at 25C BCJ 02/27/02 13:50 mg/L as CaCO3 BCJ 03/06/02 13:00 pH Units BLT 03/04/02 11:35 Category: SOIL Units By Analyzed Dt/Tm mg/L KS 02/28/02 11:05 mg/L KS 02/28/02 15:56
Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH Sample: 03J SS222002 dup leach Collected: 02/20/02 10:00 Test Description Chemical Oxygen Demand Total Organic Carbon, Aq Sample: 03K SS222002 dup leach	1.0 3.75 5.74 153 260 1.0 6.15	1.0 1.08 1.0 0.5	Mg/L as CaCO3 BCJ 03/06/02 13:00 mg/L as CO2 REP 02/26/02 13:20 mg/L JK 02/26/02 11:50 mV BLT 02/27/02 umhos at 25C BCJ 02/27/02 13:50 mg/L as CaCO3 BCJ 03/06/02 13:00 pH Units BLT 03/04/02 11:35 Category: SOIL Units By Analyzed Dt/Tm mg/L KS 02/28/02 11:05
Collected: 02/20/02 10:00 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH Sample: 03J SS222002 dup leach Collected: 02/20/02 10:00 Test Description Chemical Oxygen Demand Total Organic Carbon, Aq	1.0 3.75 5.74 153 260 1.0 6.15	1.0 1.08 1.0 0.5	Units By Analyzed Dt/Tm mg/L as CaCO3 BCJ 03/06/02 13:00 mg/L as CO2 REP 02/26/02 13:20 mg/L JK 02/26/02 11:50 mV BLT 02/27/02 umhos at 25C BCJ 02/27/02 13:50 mg/L as CaCO3 BCJ 03/06/02 13:00 pH Units BLT 03/04/02 11:35 Category: SOIL Units By Analyzed Dt/Tm mg/L KS 02/28/02 11:05 mg/L KS 02/28/02 15:56
Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH Sample: 03J SS222002 dup leach Collected: 02/20/02 10:00 Test Description Chemical Oxygen Demand Total Organic Carbon, Aq Sample: 03K SS222002 dup leach Collected: 02/20/02 10:00	1.0 3.75 5.74 153 260 1.0 6.15 Result ND 1.0	1.0 1.08 1.0 0.5	Units By Analyzed Dt/Tm mg/L as CaCO3 BCJ 03/06/02 13:00 mg/L as CO2 REP 02/26/02 13:20 mg/L JK 02/26/02 11:50 mV BLT 02/27/02 umhos at 25C BCJ 02/27/02 13:50 mg/L as CaCO3 BCJ 03/06/02 13:00 pH Units BLT 03/04/02 11:35 Category: SOIL Units By Analyzed Dt/Tm mg/L KS 02/28/02 11:05 mg/L KS 02/28/02 15:56 Category: SOIL
Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH Sample: 03J SS222002 dup leach Collected: 02/20/02 10:00 Test Description Chemical Oxygen Demand Total Organic Carbon, Aq Sample: 03K SS222002 dup leach	1.0 3.75 5.74 153 260 1.0 6.15	1.0 1.08 1.0 0.5	Units By Analyzed Dt/Tm mg/L as CaCO3 BCJ 03/06/02 13:00 mg/L as CO2 REP 02/26/02 13:20 mg/L JK 02/26/02 11:50 mV BLT 02/27/02 umhos at 25C BCJ 02/27/02 13:50 mg/L as CaCO3 BCJ 03/06/02 13:00 pH Units BLT 03/04/02 11:35 Category: SOIL Units By Analyzed Dt/Tm mg/L KS 02/28/02 11:05 mg/L KS 02/28/02 15:56

TCLP, Iron

TCLP, Lead

TCLP, Magnesium

TCLP, Manganese

TCLP, Potassium

TCLP, Nickel

Sample: 04A SS322002 Category: SOIL Collected: 02/20/02 10:35 Units By Analyzed Dt/Tm Test Description Result Det Limit 02/22/02 date extracted JPG Solid Waste, water extract TCLP Extraction 02/22/02 date extracted JPG data extracted JPG TCLP, Zero Headspace Ext 02/22/02 Category: SOIL Sample: 04B SS322002 TCLP Collected: 02/20/02 10:35 Units By Analyzed Dt/Tm Result Det Limit Test Description 170 1.0 mq/L as CaCO3 BCJ 03/06/02 13:00 Alkalinity, Bicarbonate mg/L as CO2 REP 02/22/02 12:45 Carbon dioxide, free 6.25 mq/L MSO 02/22/02 17:32 Chloride, Ion Chrom ND 0.39 0.02 mg/L BLT 02/28/02 07:15 Ferrous Iron ND 02/22/02 date complete Ion chromatography 0.372 0.06 mg/L as N MSO 02/22/02 17:32 Nitrate, Ion Chrom mg/L as N MSO 02/22/02 17:32 ND 0.02 Nitrite, Ion Chrom mg/L MS 02/26/02 13:24 Solids, Total Dissolved 4204 10 Sulfate, Ion Chrom 0.38 mg/L MSO 02/22/02 17:32 115 mg/L as CaCO3 BCJ 03/06/02 13:00 Total Alkalinity-Titration 170 1.0 Sample: 04C SS322002 TCLP Category: SOIL Collected: 02/20/02 10:35 Units By Analyzed Dt/Tm Result Det Limit Test Description 0.20 mg/L as N KS 02/26/02 11:18 Ammonia, Automated Phenate 0.73 5240 10 mg/L KS 03/05/02 10:25 Chemical Oxygen Demand date prepared 02/28/02 Digestion, TKN/Total P mg/L as P MVP 02/28/02 10:17 0.06 0.02 Phosphorous, Total 0.20 mg/L as N MVP 03/01/02 10:17 Total Kjeldahl Nitrogen 1.9 2.3 0.20 mg/L as N MVP 03/01/02 10:17 Total Nitrogen mg/L KS 02/28/02 15:56 100 1896 Total Organic Carbon, Aq Category: SOIL Sample: 04D SS322002 TCLP Collected: 02/20/02 10:35 Units By Analyzed Dt/Tm Result Det Limit Test Description date analyzed JTH 02/26/02 15:17 02/26/02 Metals, ICP/MS date analyzed 02/26/02 TCLP, Arsenic 02/26/02 date analyzed TCLP, Cadmium date complete 02/26/02 TCLP, Calcium date analyzed 02/26/02 TCLP, Chromium date analyzed 02/26/02 TCLP, Copper

02/26/02

02/26/02

02/26/02

02/26/02

02/26/02

02/26/02

date analyzed

date analyzed

date analyzed

date analyzed

date analyzed

date analyzed

Test Description TCLP, Selenium TCLP, Sodium TCLP, Zinc	Result 02/26/02 02/26/02 02/26/02	<u>Det Limit</u>	Units By Analyzed Dt/Tm date analyzed date analyzed date analyzed
Sample: 04E SS322002 TCLP Collected: 02/20/02 10:35			Category: SOIL
Test Description Tot. Pet. Hyd., Grav, 1664	Result 9.7	Det Limit 5.4	Units By Analyzed Dt/Tm mg/L KSC 02/25/02 10:08
Sample: 04F SS322002 TCLP Collected: 02/20/02 10:35			Catégory: SOIL
Test Description Sulfide, colorimetric	Result ND	Det Limit 0.03	Units By Analyzed Dt/Tm mg/L MSO 02/27/02 09:45
Sample: 04H SS322002 leach Collected: 02/20/02 10:35			Category: SOIL
Test Description Metals, ICP/OES	<u>Result</u> 03/05/02	<u>Det Limit</u>	<u>Units</u> <u>By</u> <u>Analyzed Dt/Tm</u> date analyzed
Sodium, ICP	2.95	0.20	mg/L LC 03/05/02 09:28
Sample: 04I SS322002 leach Collected: 02/20/02 10:35			Category: SOIL
	<u>Result</u>	Det Limit	Units By Analyzed Dt/Tm
Collected: 02/20/02 10:35	<u>Result</u> 6	Det Limit	Units By Analyzed Dt/Tm mg/L as CaCO3 BLT 02/26/02 09:05
Collected: 02/20/02 10:35 Test Description			Units By Analyzed Dt/Tm mg/L as CaCO3 BLT 02/26/02 09:05 mg/L as CO2 REP 02/22/02 12:45
Collected: 02/20/02 10:35 Test Description Alkalinity, Bicarbonate	6		Mg/L as CO2 REP 02/22/02 12:45 mg/L EL 02/22/02 13:30
Collected: 02/20/02 10:35 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen Redox Potential of Water	6.25	1.0	Mg/L as CaCo3 BLT 02/26/02 09:05 mg/L as CO2 REP 02/22/02 12:45 mg/L EL 02/22/02 13:30 mV BLT 02/25/02
Collected: 02/20/02 10:35 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen Redox Potential of Water Specific Conductance	6 6.25 6.08	1.0	mg/L as CaCO3 BLT 02/26/02 09:05 mg/L as CO2 REP 02/22/02 12:45 mg/L EL 02/22/02 13:30 mV BLT 02/25/02 umhos at 25C BCJ 02/27/02 13:50
Collected: 02/20/02 10:35 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen Redox Potential of Water	6.25 6.08 155 187	1.0 1.0 1.08 1.0	Mg/L as CaCO3 BLT 02/26/02 09:05 mg/L as CO2 REP 02/22/02 12:45 mg/L EL 02/22/02 13:30 mV BLT 02/25/02 umhos at 25C BCJ 02/27/02 13:50 mg/L as CaCO3 BLT 02/26/02 09:05
Collected: 02/20/02 10:35 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen Redox Potential of Water Specific Conductance	6 6.25 6.08 155 187	1.0	mg/L as CaCO3 BLT 02/26/02 09:05 mg/L as CO2 REP 02/22/02 12:45 mg/L EL 02/22/02 13:30 mV BLT 02/25/02 umhos at 25C BCJ 02/27/02 13:50
Collected: 02/20/02 10:35 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen Redox Potential of Water Specific Conductance Total Alkalinity-Titration	6.25 6.08 155 187	1.0 1.0 1.08 1.0	Mg/L as CaCO3 BLT 02/26/02 09:05 mg/L as CO2 REP 02/22/02 12:45 mg/L EL 02/22/02 13:30 mV BLT 02/25/02 umhos at 25C BCJ 02/27/02 13:50 mg/L as CaCO3 BLT 02/26/02 09:05
Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH	6.25 6.08 155 187	1.0 1.0 1.08 1.0	Units By Analyzed Dt/Tm mg/L as CaCO3 BLT 02/26/02 09:05 mg/L as CO2 REP 02/22/02 12:45 mg/L EL 02/22/02 13:30 mV BLT 02/25/02 umhos at 25C BCJ 02/27/02 13:50 mg/L as CaCO3 BLT 02/26/02 09:05 pH Units BLT 02/26/02 08:30
Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH Sample: 04J SS322002 leach Collected: 02/20/02 10:35	6.25 6.08 155 187	1.0 1.08 1.0 0.5	Units By Analyzed Dt/Tm mg/L as CaCO3 BLT 02/26/02 09:05 mg/L as CO2 REP 02/22/02 12:45 mg/L EL 02/22/02 13:30 mV BLT 02/25/02 umhos at 25C BCJ 02/27/02 13:50 mg/L as CaCO3 BLT 02/26/02 09:05 pH Units BLT 02/26/02 08:30
Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH Sample: 04J SS322002 leach Collected: 02/20/02 10:35	6.25 6.08 155 187 6	1.0 1.08 1.0 0.5	Units By Analyzed Dt/Tm mg/L as CaCO3 BLT 02/26/02 09:05 mg/L as CO2 REP 02/22/02 12:45 mg/L EL 02/22/02 13:30 mV BLT 02/25/02 umhos at 25C BCJ 02/27/02 13:50 mg/L as CaCO3 BLT 02/26/02 09:05 pH Units BLT 02/26/02 08:30 Category: SOIL
Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH Sample: 04J SS322002 leach Collected: 02/20/02 10:35	6.25 6.08 155 187 6 6.58	1.0 1.08 1.0 0.5	Units By Analyzed Dt/Tm mg/L as CaCO3 BLT 02/26/02 09:05 mg/L as CO2 REP 02/22/02 12:45 mg/L EL 02/22/02 13:30 mV BLT 02/25/02 umhos at 25C BCJ 02/27/02 13:50 mg/L as CaCO3 BLT 02/26/02 09:05 pH Units BLT 02/26/02 08:30 Category: SOIL
Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH Sample: 04J SS322002 leach Collected: 02/20/02 10:35 Test Description Chemical Oxygen Demand	6.25 6.08 155 187 6 6.58	1.0 1.08 1.0 0.5	Units By Analyzed Dt/Tm mg/L as CaCO3 BLT 02/26/02 09:05 mg/L as CO2 REP 02/22/02 12:45 mg/L EL 02/22/02 13:30 mV BLT 02/25/02 umhos at 25C BCJ 02/27/02 13:50 mg/L as CaCO3 BLT 02/26/02 09:05 pH Units BLT 02/26/02 08:30 Category: SOIL Units By Analyzed Dt/Tm mg/L KS 02/28/02 11:05
Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH Sample: 04J SS322002 leach Collected: 02/20/02 10:35 Test Description Chemical Oxygen Demand Total Organic Carbon, Aq Sample: 04K SS322002 leach Collected: 02/20/02 10:35	6.25 6.08 155 187 6 6.58 Result ND 2.1	1.0 1.08 1.0 0.5	Units By Analyzed Dt/Tm mg/L as CaCO3 BLT 02/26/02 09:05 mg/L as CO2 REP 02/22/02 12:45 mg/L EL 02/22/02 13:30 mV BLT 02/25/02 umhos at 25C BCJ 02/27/02 13:50 mg/L as CaCO3 BLT 02/26/02 09:05 pH Units BLT 02/26/02 08:30 Category: SOIL Units By Analyzed Dt/Tm mg/L KS 02/28/02 11:05 mg/L KS 02/26/02 10:48 Category: SOIL
Test Description Alkalinity, Bicarbonate Carbon dioxide, free Dissolved Oxygen Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH Sample: 04J SS322002 leach Collected: 02/20/02 10:35 Test Description Chemical Oxygen Demand Total Organic Carbon, Aq Sample: 04K SS322002 leach	6.25 6.08 155 187 6 6.58	1.0 1.08 1.0 0.5	Units By Analyzed Dt/Tm mg/L as CaCO3 BLT 02/26/02 09:05 mg/L as CO2 REP 02/22/02 12:45 mg/L EL 02/22/02 13:30 mV BLT 02/25/02 umhos at 25C BCJ 02/27/02 13:50 mg/L as CaCO3 BLT 02/26/02 09:05 pH Units BLT 02/26/02 08:30 Category: SOIL Units By Analyzed Dt/Tm mg/L KS 02/28/02 11:05 mg/L KS 02/26/02 10:48

Sample Description: SS122002 TCLP

Test Description: TCLP, Metals

Collected: 02/20/02 09:36

Lab No: 01D Method:

Category: SOIL

Test Code: TCLPMP

PARAMETER		RESULT	LIMIT	UNITS
Element	Regulatory Limit (mg/L)			
Arsenic	5.0	ND	0.10	
Barium	100.0		0.10	
Chromium	5.0	ND	0.10	
Cadmium	1.0	ND	0.10	
Lead	5.0	ND	0.10	
Mercury	0.2		0.0010	
Selenium	1.0	ND	0.10	
Silver	5.0		0.10	
Unregulated Metal	ls			
Boron			0.10	
Aluminum			0.10	
Antimony		·	0.10	
Beryllium			0.10	
Calcium		15	5.0	
Cobalt			0.10	
Copper		ND	0.10	
Nickel		0.16	0.10	
Iron		ND	0.50	
Magnesium		6.0	0.50	
Manganese		6.5	0.10	
Molybdenum		<u> </u>	0.10	
Sodium		1182	10	
Strontium	•	<u></u>	0.50	
Thallium			0.10	
Vanadium			0.10	
Zinc		0.67	0.10	
Tin			1.0	
Titanium			0.50	
Silica			10	
Tungsten			0.50	

Notes and Definitions for this Report:

DATE RUN ____ 02/26/02 ANALYST <u>JTH</u> INSTRUMENT ICPMS FILE ID ____ CONC FACTOR _____50 UNITS ____ mq/1

Sample Description: SS222002 TCLP

Test Description: TCLP, Metals

Collected: 02/20/02 10:00

Lab No: 02D

Test Code: TCLPMP Method:

Category: SOIL

PARAMETER		RESULT	LIMIT	UNITS
Element	Regulatory Limit (mg/L)			
Arsenic	5.0	0.15	0.10	
Barium	100.0		0.10	
Chromium	5.0	ND	0.10	
Cadmium	1.0	ND	0.10	
Lead	5.0	ND	0.10	
Mercury	0.2		0.050	<u> </u>
Selenium	1.0	ND	0.10	
Silver	5.0		0.10	
Unregulated M	etals			
Boron			0.10	
Aluminum			0.10	
Antimony			0.10	
Beryllium			0.10	
Calcium		15	5.0	
Cobalt			0.10	
Copper		ND	0.10	
Nickel		ND	0.10	
Iron		0.66	0.50	
Magnesium		12	0.50	
Manganese		11	0.10	
Molybdenum			0.10	
Sodium		1114	10	
Strontium			0.50	
Thallium			0.10	
Vanadium			0.10	
Zinc		0.45	0.10	
Tin			1.0	
Titanium			0.50	
Silica			10	
Tungsten			0.50	

Notes and Definitions for this Report:

02/26/02 DATE RUN ____ ANALYST JTH INSTRUMENT ICPMS FILE ID ____ CONC FACTOR 50 UNITS mq/l

Sample Description: SS222002 dup TCLP

Test Description: TCLP, Metals

Collected: 02/20/02 10:00

Lab No: 03D

Method:

Test Code: TCLPMP

Category: **SOIL**

PARAMETER		RESULT	LIMIT	UNITS
Element	Regulatory			
	Limit (mg/L)			
Arsenic	5.0	0.12	0.10	
Barium	100.0		0.10	
Chromium	5.0	ND	0.10	
Cadmium	1.0	ND	0.10	
Lead	5.0	ND	0.10	
Mercury	0.2		0.0010	
Selenium	1.0	ND	0.10	
Silver	5.0		0.10	
Unregulated Metal	S			
Boron			0.10	
Aluminum			0.10	
Antimony			0.10	
Beryllium	•		0.10	
Calcium		<u> </u>	5.0	
Cobalt			0.10	
Copper		ND	0.10	
Nickel		ND	0.10	
Iron		ND	0.50	
Magnesium		11	0.50	
Manganese		11	0.10	
Molybdenum			0.10	
Sodium		1072	10	
Strontium			0.50	
Thallium			0.10	
Vanadium			0.10	
Zinc		0.41	0.10	
Tin			1.0	
Titanium			0.50	
Silica			10	
Tungsten			0.50	

Notes and Definitions for this Report:

DATE RUN 02/26/02

ANALYST JTH

INSTRUMENT ICPMS

FILE ID 50

CONC FACTOR 50

UNITS mq/1

Sample Description: SS322002 TCLP

Test Description: TCLP, Metals

Collected: 02/20/02 10:35

Lab No: 04D

Method:

Category: SOIL

Test Code: TCLPMP

PARAMETER		RESULT	LIMIT	UNITS
Element	Regulatory Limit (mg/L)			
Arsenic	5.0	ND	0.10	
Barium	100.0		0.10	
Chromium	5.0	ND	0.10	
Cadmium	1.0	ND	0.10	
Lead	5.0	ND	0.10	
Mercury	0.2		0.0010	
Selenium	1.0	ND	0.10	
Silver	5.0		0.10	
		•		
Unregulated Meta	als			
Boron			0.10	
Aluminum			0.10	
Antimony			0.10	
Beryllium			0.10	
Calcium		13	5.0	
Cobalt			0.10	
Copper		ND	0.10	
Nickel		0.16	0.10	
Iron		ND	0.50	
Magnesium		6.2	0.50	
Manganese		7.1	0.10	
Molybdenum			0.10	
Sodium		1184	10	
Strontium			0.50	
Thallium			0.10	
Vanadium			0.10	
Zinc		0.89	0.10	
Tin			1.0	
Titanium			0.50	
Silica			10	
Tungsten	•		0.50	

Notes and Definitions for this Report:

Carbon Dioxide

SM 4500-CO2-C (titrimetric)

Dissolved Oxygen

Total Dissolved Solids

Field test, electrode method

ICP (Inductively Coupled Argon Plasma Emission Spectroscopy)

Wastewater & drinking water RCRA TCLP & groundwater Solids

EPA Method 200.7 SW 846 Method 6010 SW 846 Method 6010

ICP/MS (Inductively Coupled Argon Plasma Mass Spectrometry)

Wastewater & drinking water EPA Method 200.8 RCRA TCLP & groundwater Solids

SW 846 Method 6020 SW 846 Method 6020

Sodium (Na) - ICP (Inductively Coupled Argon Plasma Emission Spectroscopy)

RCRA TCLP & groundwater Solids

Wastewater & drinking water EPA (1983) Method 200.7 SW 846 Method 6010 SW 846 Method 6010

SM 2540C Gravimetric, dried at 180C

Arsenic (As) - TCLP Leachate SW-846 Method 6010/6020 (ICP/ICP-MS) Calcium (Ca) - TCLP Leachate SW-846 Method 6010/6020 (ICP/ICP-MS) Cadmium (Cd) - TCLP Leachate SW-846 Method 6010/6020 (ICP/ICP-MS) Chromium (Cr) - TCLP Leachate SW-846 Method 6010/6020 (ICP/ICP-MS) SW-846 Method 6010/6020 (ICP/ICP-MS) Copper (Cu) - TCLP Leachate SW-846 Method 6010/6020 (ICP/ICP-MS) Iron (Fe) - TCLP Leachate SW-846 Method 6010/6020 (ICP/ICP-MS) Potassium (K) - TCLP Leachate SW-846 Method 6010/6020 (ICP/ICP-MS) Magnesium (Mg) - TCLP Leachate SW-846 Method 6010/6020 (ICP/ICP-MS) Manganese (Mn) - TCLP Leachate SW-846 Method 6010/6020 (ICP/ICP-MS) Sodium (Na) - TCLP Leachate SW-846 Method 6010/6020 (ICP/ICP-MS) Nickel (Ni) - TCLP Leachate SW-846 Method 6010/6020 (ICP/ICP-MS) Lead (Pb) - TCLP Leachate SW-846 Method 6010/6020 (ICP/ICP-MS) Selenium (Se) - TCLP Leachate SW-846 Method 6010/6020 (ICP/ICP-MS) Zinc (Zn) - TCLP Leachate EPA Method 410.4 (manual colorimetric) Chemical Oxygen Demand

TEST METHODOLOGIES

Total Organic Carbon, Aqueous

EPA Method 415.2

(low-level, persulfate oxidation)

SW-846 Method 9060

Solid Waste, water extract

ASTM D 3987, Standard Test Method for Shake

Extraction of Solid Waste with water

TCLP Extraction

SW-846 Method 1311

Zero Headspace Extraction

SW-846 Method 1311

Total Petroleum Hydrocarbons (gravimetric)

EPA Method 1664 (Hexane extraction, followed by treatment with silica gel, gravimetric determination)

Method Detection Limit-1.9 mg/L

Bicarbonate alkalinity

SM 4500-CO2-D (17th edition)

Total Alkalinity

SM 2320B (titrimetric)

Chloride, Ion Chromatography

Drinking water, wastewater

Method 300.0

Groundwater, RCRA wastes

SW-846 Method 9056

Specific Conductance

EPA Method 120.1

Ammonia

SM 4500-NH3-G 19th ed. Automated phenate

EPA Method 350.1

Nitrate/Nitrite (combined), Ion Chromatography

Drinking water, wastewater

Method 300.0

Groundwater, RCRA wastes

SW-846 Method 9056

Nitrate, Ion Chromatography

Drinking water, wastewater

Method 300.0

Groundwater, RCRA wastes

SW-846 Method 9056

рН

EPA Method 150.1 (electrometric)

Phosphorous, Total

EPA Method 365.3

SM4500-P-F Automated Ascorbic Acid Reduction

Redox Potential of Water

ASTM Method D 1498

Sulfide in Aqueous Samples

EPA Method 376.2 - Methylene Blue Method

Sulfate, Ion Chromatography Drinking water, wastewater

Method 300.0

Groundwater, RCRA wastes

SW-846 Method 9056

Total Kjeldahl Nitrogen

SM 4500-Norg-C Semi-Micro Kjeldahl SM 4500-NH3-G Automated phenate

Order # 02-02-812 03/13/02 16:24

REPORT COMMENTS

Methane Results:

0202812-01G	2.0 ug/L
0202812-02G	2.0 ug/L
0202812-03G	2.0 ug/L
0202812-04G	2.0 ug/L

0202812 0202825

Maryland Environmental Service Chain of Custody for Elutriate Water

Project Name:	Furnace Bay Groundwater Stu	dv
	construction, and and mater of	

Sample Collector(s): Mike Rooney

Project #: 792-7827 Sub # 0322

Sample Purpose : Soils testing

Bottle	Sample	Sa	mple	Number of Bottles	Notes
Number	Location	Date	Time	Bottles	
55122002		2/20/02	9:36	1	
SS2 2 3002	552	/ /	10:00		
SS 3 22002	553		10:35	1	
554 22007	554		10:50	1	
555 22007	555	V	11:00	1	
				5	

Chilled to 4 Degrees Cels	ius? Ye	sNo		Total Number of Bottles	

Analysis:

(1) Liter Amber glass unpreserved for : See attached

Relinquishe	d By I	Date Time	Accepted By	Date Time
My Romy	2/	20to 13:48	Mes Fridge	2/30/00 13:40
Frige	भ	20/0x 1445	Rysta	720/02 1445
•	•		K/Z/W	260/02
* Note	Run	Puplic	ate on sample:	# 22 92005

Furnace Bay GW study COC

Analyses	methodology	TCLP Method	D3987
Sodium	EPA 200.7	X	X
Potassium	EPA 200.7	X	
Iron	EPA 200.7	X	
Manganese	EPA 200.7	. X	
Arsenic	EPA 200.8	X	
Cadmium	EPA 200.7	Х	
Chromium	EPA 200.7	X	
Copper	EPA 200.7	Χ	
Lead	EPA 200.8	X	
Zinc	EPA 200.7	X	
Nickel	EPA 200.7	X	
Selenium	EPA 200.7	X	
Nitrate-Nitrite-Nitrogen	EPA 353.2/300.0	X	
TKN	EPA 351.3	X	
Nitrate-nitrogen	EPA 300	X	
Total nitrogen		X	
Ammonia Nitrogen	SM 4500-NH3-E	X	
Chemical Oxygen Demand	SM 5220-D	X	X
Calcium	EPA 200.7	X	
Magnesium	EPA 200.7	X	
Bicarbonates	SM4500CO2-D	X	Х
Chloride	SM4500CL-F	X	
Sulfate	SM4500SO42-B	X	
Suflide	EPA 376.2	X	X
Total petroleum hydrocarbons	EPA 418.1 modified	X	
Total Phosphorous	EPA 365.3	×	
Total Organic Carbon	SM5310-C	X	X
Alkalinity	SM 2320B	X	X
Dissolved Solids	EPA 160.1	X]
Carbon Dioxide	SM4500	X	X
Ferrous Iron	SM 3500 Fe	X	
Dissolved oxygen			Χ
Specific conductance	EPA 120.1/SM2510B		X
Oxidation Reduction Potential			Χ
Нξ			Χ
Methane	SM-6211	X	



630 Churchmans Road Newark, Delaware 19702 302-266-9121 · 454-8720 (FAX)

REPORT OF ANALYSIS

Maryland Environmental Svc 2011 Commerce Park Drive Annapolis, MD 21401

Purchase Order: 98-04-11/1-01

Order #: 02-02-825 Date: 03/13/02 16:37

Work ID: Furnace Bay GW Study-Soils

Date Received: 02/20/02

Date Completed: 03/13/02

Attn: Mr. Rex A. Lloyd

Act:2170292

Invoice Number:

Client Code: MES_AB

SAMPLE IDENTIFICATION

Sample Sample Number Description SS422002

Sample Sample Number Description

SS522002

This cover page is an integral part of the analytical report that follows.

> Certified By Warren Van Arsdall

RECEIVED

MAR 1 8 2002

Maryland Environmental Service 03

Sample: 01A SS422002 Category: SOIL Collected: 02/20/02 10:50

Test Description	<u>Result</u>	Det Limit	<u>Units</u> By	Analyzed Dt/Tm
Solid Waste, water extract	02/27/02	date	extracted JK	
TCLP Extraction	02/27/02	date	extracted JK	
TCLP, Zero Headspace Ext	02/27/02	data	extracted JK	

Sample: 01B SS422002 TCLP Category: SOIL

Collected: 02/20/02 10:50

Test Description	Result	Det Limit	<u>Units</u>	By	Analyzed Dt/Tm
Alkalinity, Bicarbonate	891	1.0	mg/L as CaCO3 E	BLT	03/11/02 08:55
Carbon dioxide, free	<1.25		mg/L as CO2 F	REP	03/13/02 13:45
Chloride, Ion Chrom	ND	0.39	mg/L M	MSO	02/27/02 21:52
Ferrous Iron	ND	0.02	mg/L E	BLT	02/28/02 07:15
Ion chromatography	02/27/02		date complete		
Nitrate, Ion Chrom	ND	0.06	mg/L as N M	MSO	02/27/02 21:52
Nitrite, Ion Chrom	ND	0.02	mg/L as N M	MSO	02/27/02 21:52
Solids, Total Dissolved	4409	20	mg/L M	MS	03/01/02 13:25
Sulfate, Ion Chrom	18.2	0.38	mg/L M	MSO	02/27/02 21:52
Total Alkalinity-Titration	891	1.0	mg/L as CaCO3 E	BLT	03/11/02 08:55

Sample: 01C SS422002 TCLP Category: SOIL

Collected: 02/20/02 10:50

Test Description	<u>Result</u>	Det Limit	<u>Units</u> By <u>Analyzed Dt/Tm</u>
Ammonia, Automated Phenate	ND	0.20	mg/L as N KS 02/28/02 12:06
Chemical Oxygen Demand	5570	10	mg/L KS 03/05/02 10:25
Digestion, TKN/Total P	02/27/02		date prepared MVP
Phosphorous, Total	0.07	0.02	mg/L as P MVP 02/27/02 13:36
Total Kjeldahl Nitrogen	0.77	0.20	mg/L as N MVP 02/27/02 13:36
Total Nitrogen	0.77	0.20	mg/L as N MVP 02/27/02 13:36
Total Organic Carbon, Aq	1939	100	mg/L KS 02/28/02 15:56

Sample: 01D SS422002 TCLP Category: SOIL

Collected: 02/20/02 10:50

Test Description Metals, ICP/MS TCLP, Arsenic TCLP, Cadmium TCLP, Calcium	Result 03/01/02 03/01/02 03/01/02 03/01/02	da da da da	ce analyzed ce analyzed ce analyzed ce complete	JTH	<u>Analyzed</u> 03/01/02	
TCLP, Calcium TCLP, Chromium TCLP, Copper TCLP, Iron TCLP, Lead TCLP, Magnesium TCLP, Manganese TCLP, Nickel TCLP, Potassium	03/01/02 03/01/02 03/01/02 03/01/02 03/01/02 03/01/02 03/01/02 03/01/02	da da da da da da	ce complete ce analyzed ce analyzed ce analyzed ce analyzed ce analyzed ce analyzed ce analyzed ce analyzed ce analyzed			

			•
Test Description	Result	<u>Det Limit</u>	Units By Analyzed Dt/Tm
TCLP, Selenium	03/01/02		date analyzed
TCLP, Sodium	03/01/02		date analyzed
TCLP, Zinc	03/01/02		date analyzed
Sample: 01E SS422002 TCLP			Category: SOIL
Collected: 02/20/02 10:50			
Bara Baranishian	Booult	Det Limit	Units By Analyzed Dt/Tm
Test Description	<u>Result</u> ND	5.0	mg/L KSC 03/06/02 09:30
Tot. Pet. Hyd., Grav, 1664	ND	5.0	mg/ n RSC 03/00/02 07.30
Sample: 01F SS422002 TCLP			Category: SOIL
Collected: 02/20/02 10:50			00005007 1 0000
201166664. 02/20/02 10:30			
Test Description	Result	Det Limit	Units By Analyzed Dt/Tm
Sulfide, colorimetric	ND	0.03	mg/L MSO 02/27/02 09:45
			-
Sample: 01H SS422002 ASTM leac	h		Category: SOIL
Collected: 02/20/02 10:50			
Test Description	<u>Result</u>	<u>Det Limit</u>	<u>Units</u> By <u>Analyzed Dt/Tm</u>
Metals, ICP/OES	03/05/02		date analyzed
Sodium, ICP	7.60	0.20	mg/L LC 03/05/02 09:31
Sample: 01I SS422002 ASTM leac	h		Category: SOIL
Sample: 01I SS422002 ASTM leac Collected: 02/20/02 10:50	h		Category: SOIL
Collected: 02/20/02 10:50		Det Limit	
Collected: 02/20/02 10:50 Test Description	<u>Result</u>		Units By Analyzed Dt/Tm
Collected: 02/20/02 10:50 Test Description Alkalinity, Bicarbonate	Result 6.0	Det Limit	Units By Analyzed Dt/Tm mg/L as CaCO3 BLT 03/11/02 08:55
Collected: 02/20/02 10:50 Test Description Alkalinity, Bicarbonate Carbon dioxide, free	<u>Result</u> 6.0 <1.25		Units By Analyzed Dt/Tm mg/L as CaCO3 BLT 03/11/02 08:55 mg/L as CO2 REP 03/13/02 14:45
Collected: 02/20/02 10:50 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Redox Potential of Water	<u>Result</u> 6.0 <1.25 91	1.0	Mg/L as CO2 REP 03/13/02 14:45 my BLT 02/27/02
Collected: 02/20/02 10:50 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Redox Potential of Water Specific Conductance	Result 6.0 <1.25 91 53	1.08	Mg/L as CaCO3 BLT 03/11/02 08:55 mg/L as CO2 REP 03/13/02 14:45 mV BLT 02/27/02 umhos at 25C BCJ 03/01/02 13:05
Collected: 02/20/02 10:50 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Redox Potential of Water Specific Conductance Total Alkalinity-Titration	Result 6.0 <1.25 91 53 6.0	1.08	mg/L as CaCO3 BLT 03/11/02 08:55 mg/L as CO2 REP 03/13/02 14:45 mV BLT 02/27/02 umhos at 25C BCJ 03/01/02 13:05 mg/L as CaCO3 BLT 03/11/02 08:55
Collected: 02/20/02 10:50 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Redox Potential of Water Specific Conductance	Result 6.0 <1.25 91 53	1.08	mg/L as CaCO3 BLT 03/11/02 08:55 mg/L as CO2 REP 03/13/02 14:45 mV BLT 02/27/02 umhos at 25C BCJ 03/01/02 13:05
Collected: 02/20/02 10:50 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH	Result 6.0 <1.25 91 53 6.0 8.00	1.08	Mg/L as CaCO3 BLT 03/11/02 08:55 mg/L as CO2 REP 03/13/02 14:45 mV BLT 02/27/02 umhos at 25C BCJ 03/01/02 13:05 mg/L as CaCO3 BLT 03/11/02 08:55 pH Units BLT 03/04/02 11:35
Collected: 02/20/02 10:50 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH Sample: 01J SS422002 ASTM lead	Result 6.0 <1.25 91 53 6.0 8.00	1.08	mg/L as CaCO3 BLT 03/11/02 08:55 mg/L as CO2 REP 03/13/02 14:45 mV BLT 02/27/02 umhos at 25C BCJ 03/01/02 13:05 mg/L as CaCO3 BLT 03/11/02 08:55
Collected: 02/20/02 10:50 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH	Result 6.0 <1.25 91 53 6.0 8.00	1.08	Mg/L as CaCO3 BLT 03/11/02 08:55 mg/L as CO2 REP 03/13/02 14:45 mV BLT 02/27/02 umhos at 25C BCJ 03/01/02 13:05 mg/L as CaCO3 BLT 03/11/02 08:55 pH Units BLT 03/04/02 11:35
Collected: 02/20/02 10:50 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH Sample: 01J SS422002 ASTM lead Collected: 02/20/02 10:50	Result 6.0 <1.25 91 53 6.0 8.00	1.08 1.0 0.5	Units By Analyzed Dt/Tm mg/L as CaCO3 BLT 03/11/02 08:55 mg/L as CO2 REP 03/13/02 14:45 mV BLT 02/27/02 umhos at 25C BCJ 03/01/02 13:05 mg/L as CaCO3 BLT 03/11/02 08:55 pH Units BLT 03/04/02 11:35 Category: SOIL
Collected: 02/20/02 10:50 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH Sample: 01J SS422002 ASTM lead Collected: 02/20/02 10:50 Test Description	Result 6.0 <1.25 91 53 6.0 8.00	1.08 1.0 0.5	Mg/L as CaCO3 BLT 03/11/02 08:55 mg/L as CO2 REP 03/13/02 14:45 mV BLT 02/27/02 umhos at 25C BCJ 03/01/02 13:05 mg/L as CaCO3 BLT 03/11/02 08:55 pH Units BLT 03/04/02 11:35
Collected: 02/20/02 10:50 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH Sample: 01J SS422002 ASTM lead Collected: 02/20/02 10:50 Test Description Chemical Oxygen Demand	Result 6.0 <1.25 91 53 6.0 8.00	1.08 1.08 1.0 0.5	Units By Analyzed Dt/Tm mg/L as CaCO3 BLT 03/11/02 08:55 mg/L as CO2 REP 03/13/02 14:45 mV BLT 02/27/02 umhos at 25C BCJ 03/01/02 13:05 mg/L as CaCO3 BLT 03/11/02 08:55 pH Units BLT 03/04/02 11:35 Category: SOIL Units By Analyzed Dt/Tm
Collected: 02/20/02 10:50 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH Sample: 01J SS422002 ASTM lead Collected: 02/20/02 10:50 Test Description	Result 6.0 <1.25 91 53 6.0 8.00	1.08 1.08 1.0 0.5	Units By Analyzed Dt/Tm mg/L as CaCO3 BLT 03/11/02 08:55 mg/L as CO2 REP 03/13/02 14:45 mV BLT 02/27/02 umhos at 25C BCJ 03/01/02 13:05 mg/L as CaCO3 BLT 03/11/02 08:55 pH Units BLT 03/04/02 11:35 Category: SOIL Units By Analyzed Dt/Tm mg/L KS 02/28/02 11:05
Collected: 02/20/02 10:50 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH Sample: 01J SS422002 ASTM lead Collected: 02/20/02 10:50 Test Description Chemical Oxygen Demand	Result 6.0 <1.25 91 53 6.0 8.00 h Result ND ND	1.08 1.08 1.0 0.5	Units By Analyzed Dt/Tm mg/L as CaCO3 BLT 03/11/02 08:55 mg/L as CO2 REP 03/13/02 14:45 mV BLT 02/27/02 umhos at 25C BCJ 03/01/02 13:05 mg/L as CaCO3 BLT 03/11/02 08:55 pH Units BLT 03/04/02 11:35 Category: SOIL Units By Analyzed Dt/Tm mg/L KS 02/28/02 11:05
Collected: 02/20/02 10:50 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH Sample: 01J SS422002 ASTM lead Collected: 02/20/02 10:50 Test Description Chemical Oxygen Demand Total Organic Carbon, Aq	Result 6.0 <1.25 91 53 6.0 8.00 h Result ND ND	1.08 1.08 1.0 0.5	Units By Analyzed Dt/Tm mg/L as CaCO3 BLT 03/11/02 08:55 mg/L as CO2 REP 03/13/02 14:45 mV BLT 02/27/02 umhos at 25C BCJ 03/01/02 13:05 mg/L as CaCO3 BLT 03/11/02 08:55 pH Units BLT 03/04/02 11:35 Category: SOIL Units By Analyzed Dt/Tm mg/L KS 02/28/02 11:05 mg/L KS 02/28/02 15:56
Test Description Alkalinity, Bicarbonate Carbon dioxide, free Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH Sample: 01J SS422002 ASTM lead Collected: 02/20/02 10:50 Test Description Chemical Oxygen Demand Total Organic Carbon, Aq Sample: 01K SS422002 ASTM lead	Result 6.0 <1.25 91 53 6.0 8.00 h Result ND ND	1.08 1.08 1.0 0.5	Units By Analyzed Dt/Tm mg/L as CaCO3 BLT 03/11/02 08:55 mg/L as CO2 REP 03/13/02 14:45 mV BLT 02/27/02 umhos at 25C BCJ 03/01/02 13:05 mg/L as CaCO3 BLT 03/11/02 08:55 pH Units BLT 03/04/02 11:35 Category: SOIL Units By Analyzed Dt/Tm mg/L KS 02/28/02 11:05 mg/L KS 02/28/02 15:56 Category: SOIL
Test Description Alkalinity, Bicarbonate Carbon dioxide, free Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH Sample: 01J SS422002 ASTM lead Collected: 02/20/02 10:50 Test Description Chemical Oxygen Demand Total Organic Carbon, Aq Sample: 01K SS422002 ASTM lead Collected: 02/20/02 10:50 Test Description	Result 6.0 <1.25 91 53 6.0 8.00 h Result ND ND ND	1.08 1.00 0.5	Units By Analyzed Dt/Tm mg/L as CaCO3 BLT 03/11/02 08:55 mg/L as CO2 REP 03/13/02 14:45 mV BLT 02/27/02 umhos at 25C BCJ 03/01/02 13:05 mg/L as CaCO3 BLT 03/11/02 08:55 pH Units BLT 03/04/02 11:35 Category: SOIL Units By Analyzed Dt/Tm mg/L KS 02/28/02 15:56 Category: SOIL Units By Analyzed Dt/Tm
Test Description Alkalinity, Bicarbonate Carbon dioxide, free Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH Sample: 01J SS422002 ASTM lead Collected: 02/20/02 10:50 Test Description Chemical Oxygen Demand Total Organic Carbon, Aq Sample: 01K SS422002 ASTM lead Collected: 02/20/02 10:50	Result 6.0 <1.25 91 53 6.0 8.00 h Result ND ND	1.08 1.08 0.5	Units By Analyzed Dt/Tm mg/L as CaCO3 BLT 03/11/02 08:55 mg/L as CO2 REP 03/13/02 14:45 mV BLT 02/27/02 umhos at 25C BCJ 03/01/02 13:05 mg/L as CaCO3 BLT 03/11/02 08:55 pH Units BLT 03/04/02 11:35 Category: SOIL Units By Analyzed Dt/Tm mg/L KS 02/28/02 11:05 mg/L KS 02/28/02 15:56 Category: SOIL

Sample: 02A SS522002 Category: SOIL Collected: 02/20/02 11:00

Test Description Result Det Limit Units By Analyzed Dt/Tm

Solid Waste, water extract 02/27/02 date extracted JK

TCLP Extraction 02/27/02 date extracted JK

TCLP, Zero Headspace Ext 02/27/02 data extracted JK

Sample: 02B SS522002 TCLP Category: SOIL

Collected: 02/20/02 11:00

Test Description	<u>Result</u>	Det Limit	Units By Analyzed Dt/Tm
Alkalinity, Bicarbonate	840	1.0	mg/L as CaCO3 BLT 03/11/02 08:55
Carbon dioxide, free	1.25		mg/L as CO2 TLC 02/27/02 13:45
Chloride, Ion Chrom	ND	0.39	mg/L MSO 02/27/02 22:27
Ferrous Iron	ND	0.02	mg/L BLT 02/28/02 07:15
Ion chromatography	02/27/02		date complete M S O
Nitrate, Ion Chrom	, ND	0.06	mg/L as N MSO 02/27/02 22:27
Nitrite, Ion Chrom	ND	0.02	mg/L as N MSO 02/27/02 22:27
Solids, Total Dissolved	4441	20	mg/L MS 03/01/02 13:25
Sulfate, Ion Chrom	78.0	0.38	mg/L MSO 02/27/02 22:27
Total Alkalinity-Titration	840	1.0	mg/L as CaCO3 BLT 03/11/02 08:55

Sample: 02C SS522002 TCLP Category: SOIL Collected: 02/20/02 11:00

Test Description Result Det Limit Units By Analyzed Dt/Tm Ammonia, Automated Phenate 0.20 mg/L as N KS 02/28/02 12:06 Chemical Oxygen Demand 5540 10 mg/L KS 03/05/02 10:25 Digestion, TKN/Total P 02/27/02 date prepared MVP Phosphorous, Total mg/L as P MVP 02/27/02 13:36 0.06 0.02 Total Kjeldahl Nitrogen mg/L as N MVP 02/27/02 13:36 0.78 0.20 Total Nitrogen 0.78 0.20 mg/L as N MVP 02/27/02 13:36 Total Organic Carbon, Aq 1932 100 mg/L KS 02/28/02 15:56

Sample: 02D SS522002 TCLP Category: SOIL

Collected: 02/20/02 11:00

Test De	escription	Result	Det Limit	<u>Unit</u>	s By	Analyzed Dt/Tm
Metals	, ICP/MS	03/01/02		date analyze	d JTH	03/01/02 16:58
TCLP,	Arsenic	03/01/02		date analyze	i	
TCLP,	Cadmium	03/01/02		date analyze	i	
TCLP,	Calcium	03/01/02		date complet	9	
TCLP,	Chromium	03/01/02		date analyze	i	
TCLP,	Copper	03/01/02		date analyze	i	
TCLP,	Iron	03/01/02		date analyze	i	
TCLP,	Lead	03/01/02		date analyze	i	
TCLP,	Magnesium	03/01/02		date analyze	d	•
TCLP,	Manganese	03/01/02		date analyze	d	
TCLP, I	Nickel	03/01/02		date analyze	d	
TCLP,	Potassium	03/01/02		date analyze	d	

Test Description TCLP, Selenium TCLP, Sodium TCLP, Zinc	Result 03/01/02 03/01/02 03/01/02	<u>Det Limit</u>	Units By Analyzed Dt/Tm date analyzed date analyzed date analyzed
Sample: 02E SS522002 TCLP Collected: 02/20/02 11:00			Category: SOIL
Test Description Tot. Pet. Hyd., Grav, 1664	Result ND	Det Limit 5.0	Units By Analyzed Dt/Tm mg/L KSC 03/06/02 10:55
Sample: 02F SS522002 TCLP Collected: 02/20/02 11:00			Category: SOIL
Test Description Sulfide, colorimetric	Result ND	Det Limit 0.03	Units By Analyzed Dt/Tm mg/L MSO 02/27/02 09:45
Sample: 02H SS522002 leach Collected: 02/20/02 11:00			Category: SOIL
Test Description Metals, ICP/OES	Result 03/05/02		Units By Analyzed Dt/Tm date analyzed mg/L LC 03/05/02 09:34
Sodium, ICP	7.61	0.20	mg/L LC 03/05/02 09:34
Sample: 02I SS522002 leach			Category: SOIL
Sample: 02I SS522002 leach Collected: 02/20/02 11:00			Category: SOIL
	<u>Result</u>	<u>Det Limit</u>	Units By Analyzed Dt/Tm
Collected: 02/20/02 11:00	Result 4.2	Det Limit	Units By Analyzed Dt/Tm mg/L as CaCO3 BLT 03/11/02 08:55
Collected: 02/20/02 11:00 Test Description Alkalinity, Bicarbonate Carbon dioxide, free	4.2		Units By Analyzed Dt/Tm mg/L as CaCO3 BLT 03/11/02 08:55 mg/L as CO2 TLC 02/27/02 13:45
Collected: 02/20/02 11:00 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Redox Potential of Water	4.2 1.25 144	1.0	Units By Analyzed Dt/Tm mg/L as CaCO3 BLT 03/11/02 08:55 mg/L as CO2 TLC 02/27/02 13:45 mV BLT 02/27/02
Collected: 02/20/02 11:00 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Redox Potential of Water Specific Conductance	4.2 1.25 144 190	1.08	Mg/L as CaCO3 BLT 03/11/02 08:55 mg/L as CO2 TLC 02/27/02 13:45 mV BLT 02/27/02 umhos at 25C BCJ 03/01/02 13:05
Collected: 02/20/02 11:00 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Redox Potential of Water Specific Conductance Total Alkalinity-Titration	4.2 1.25 144 190 4.2	1.08	Mg/L as CaCO3 BLT 03/11/02 08:55 mg/L as CO2 TLC 02/27/02 13:45 mV BLT 02/27/02 umhos at 25C BCJ 03/01/02 13:05 mg/L as CaCO3 BLT 03/11/02 08:55
Collected: 02/20/02 11:00 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Redox Potential of Water Specific Conductance	4.2 1.25 144 190	1.08	Mg/L as CaCO3 BLT 03/11/02 08:55 mg/L as CO2 TLC 02/27/02 13:45 mV BLT 02/27/02 umhos at 25C BCJ 03/01/02 13:05
Collected: 02/20/02 11:00 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Redox Potential of Water Specific Conductance Total Alkalinity-Titration	4.2 1.25 144 190 4.2	1.08	Mg/L as CaCO3 BLT 03/11/02 08:55 mg/L as CO2 TLC 02/27/02 13:45 mV BLT 02/27/02 umhos at 25C BCJ 03/01/02 13:05 mg/L as CaCO3 BLT 03/11/02 08:55
Collected: 02/20/02 11:00 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH Sample: 02J SS522002 leach Collected: 02/20/02 11:00	4.2 1.25 144 190 4.2 6.64	1.08 1.0 0.5	Units By Analyzed Dt/Tm mg/L as CaCO3 BLT 03/11/02 08:55 mg/L as CO2 TLC 02/27/02 13:45 mV BLT 02/27/02 umhos at 25C BCJ 03/01/02 13:05 mg/L as CaCO3 BLT 03/11/02 08:55 pH Units BLT 03/04/02 11:35 Category: SOIL
Collected: 02/20/02 11:00 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH Sample: 02J SS522002 leach Collected: 02/20/02 11:00 Test Description	4.2 1.25 144 190 4.2	1.08	Units By Analyzed Dt/Tm mg/L as CaCO3 BLT 03/11/02 08:55 mg/L as CO2 TLC 02/27/02 13:45 mV BLT 02/27/02 umhos at 25C BCJ 03/01/02 13:05 mg/L as CaCO3 BLT 03/11/02 08:55 pH Units BLT 03/04/02 11:35 Category: SOIL Units By Analyzed Dt/Tm
Collected: 02/20/02 11:00 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH Sample: 02J SS522002 leach Collected: 02/20/02 11:00	4.2 1.25 144 190 4.2 6.64	1.08 1.0 0.5	Units By Analyzed Dt/Tm mg/L as CaCO3 BLT 03/11/02 08:55 mg/L as CO2 TLC 02/27/02 13:45 mV BLT 02/27/02 umhos at 25C BCJ 03/01/02 13:05 mg/L as CaCO3 BLT 03/11/02 08:55 pH Units BLT 03/04/02 11:35 Category: SOIL
Collected: 02/20/02 11:00 Test Description Alkalinity, Bicarbonate Carbon dioxide, free Redox Potential of Water Specific Conductance Total Alkalinity-Titration pH Sample: 02J SS522002 leach Collected: 02/20/02 11:00 Test Description Chemical Oxygen Demand	4.2 1.25 144 190 4.2 6.64 Result	1.08 1.08 1.0 0.5	Units By Analyzed Dt/Tm mg/L as CaCO3 BLT 03/11/02 08:55 mg/L as CO2 TLC 02/27/02 13:45 mV BLT 02/27/02 umhos at 25C BCJ 03/01/02 13:05 mg/L as CaCO3 BLT 03/11/02 08:55 pH Units BLT 03/04/02 11:35 Category: SOIL Units By Analyzed Dt/Tm mg/L KS 03/05/02 10:25

Consult

Sample Description: SS422002 TCLP

Test Description: TCLP, Metals

Collected: 02/20/02 10:50

Lab No: 01D

Method:

Category: SOIL

Test Code: TCLPMP

PARAMETER			RESULT	LIMIT	UNITS
Element	Regulato	_			
Arsenic	5.0		ND	0.10	
Barium	100.0		0.19	0.10	
Chromium	5.0		<u>ND</u>	0.10	
Cadmium	1.0		ND	0.10	
Lead	5.0		ND	0.10	
Mercury	0.2		ND	0.0010	
Selenium	1.0		ND	0.10	
Silver	5.0		ND	0.10	
Unregulated Metal	S				
Boron				0.10	
Aluminum				0.10	
Antimony				0.10	
Beryllium				0.10	
Calcium			7.50	5.0	
Cobalt				0.10	
Copper			ND	0.10	
Nickel			ND	0.10	
Iron			ND	0.50	
Magnesium			2.60	0.50	
Manganese			3.80	0.10	
Molybdenum				0.10	
Sodium			1180	10	
Strontium				0.50	
Thallium				0.10	
Vanadium	•		**	0.10	
Zinc			0.33	0.10	
Tin				1.0	
Titanium				0.50	
Silica				10	
Tungsten				0.50	

Notes and Definitions for this Report:

DATE	RUN _	
ANALY	rst	_
INST	RUMENT	
FILE	ID	
CONC	FACTOR	50
INITTO	,	

Sample Description: SS522002 TCLP
Test Description: TCLP, Metals

Collected: 02/20/02 11:00

Lab No: 02D

Method:

Category: SOIL

Test Code: TCLPMP

PARAMETER		RESULT	LIMIT	UNITS
Element	Regulatory Limit (mg/L)			
Arsenic	5.0	ND	0.10	
Barium	100.0	2.90	0.10	
Chromium	5.0	ND	0.10	
Cadmium	1.0	ND	0.10	
Lead	5.0	ND	0.10	
Mercury	0.2	ND	0.0010	
Selenium	1.0	ND	0.10	
Silver	5.0	ND	0.10	
Unregulated Me	tals			
Boron		-	0.10	
Aluminum			0.10	
Antimony			0.10	
Beryllium			0.10	
Calcium		21.1	5.0	
Cobalt			0.10	
Copper		0.36	0.10	
Nickel		0.44	0.10	
Iron		ND	0.50	
Magnesium		4.96	0.50	
Manganese		3.71	0.10	
Molybdenum			0.10	
Sodium		1143	10	
Strontium			0.50	
Thallium			0.10	
Vanadium			0.10	
Zinc		0.65	0.10	
Tin			1.0	
Titanium			0.50	
Silica			10	
Tungsten			0.50	

Notes and Definitions for this Report:

DATE RUN	
ANALYST	_
INSTRUMENT	·
FILE ID	
CONC FACTOR	50
INITEC	ma/I

Carbon Dioxide

SM 4500-CO2-C (titrimetric)

ICP (Inductively Coupled Argon Plasma Emission Spectroscopy)

Wastewater & drinking water RCRA TCLP & groundwater Solids

EPA Method 200.7 SW 846 Method 6010 SW 846 Method 6010

ICP/MS (Inductively Coupled Argon Plasma Mass Spectrometry)

Wastewater & drinking water EPA Method 200.8 RCRA TCLP & groundwater Solids

SW 846 Method 6020 SW 846 Method 6020

Sodium (Na) - ICP (Inductively Coupled Argon Plasma Emission Spectroscopy)

Wastewater & drinking water RCRA TCLP & groundwater Solids

EPA (1983) Method 200.7 SW 846 Method 6010 SW 846 Method 6010

Arsenic (As) - TCLP Leachate SW-846 Method 6010/6020 (ICP/ICP-MS) Calcium (Ca) - TCLP Leachate SW-846 Method 6010/6020 (ICP/ICP-MS) Cadmium (Cd) - TCLP Leachate SW-846 Method 6010/6020 (ICP/ICP-MS) Chromium (Cr) - TCLP Leachate SW-846 Method 6010/6020 (ICP/ICP-MS) SW-846 Method 6010/6020 (ICP/ICP-MS) Copper (Cu) - TCLP Leachate SW-846 Method 6010/6020 (ICP/ICP-MS) Iron (Fe) - TCLP Leachate

Potassium (K) - TCLP Leachate SW-846 Method 6010/6020 (ICP/ICP-MS)

SW-846 Method 6010/6020 (ICP/ICP-MS) Magnesium (Mg) - TCLP Leachate

SW-846 Method 6010/6020 (ICP/ICP-MS) Manganese (Mn) - TCLP Leachate

Sodium (Na) - TCLP Leachate SW-846 Method 6010/6020 (ICP/ICP-MS)

SW-846 Method 6010/6020 (ICP/ICP-MS) Nickel (Ni) - TCLP Leachate

SW-846 Method 6010/6020 (ICP/ICP-MS) Lead (Pb) - TCLP Leachate

Selenium (Se) - TCLP Leachate SW-846 Method 6010/6020 (ICP/ICP-MS)

SW-846 Method 6010/6020 (ICP/ICP-MS) Zinc (Zn) - TCLP Leachate

EPA Method 410.4 (manual colorimetric) Chemical Oxygen Demand

SM 2540C Gravimetric, dried at 180C Total Dissolved Solids

Total Organic Carbon, Aqueous EPA Method 415.2

(low-level, persulfate oxidation)

TEST METHODOLOGIES

SW-846 Method 9060

Solid Waste, water extract

ASTM D 3987, Standard Test Method for Shake

Extraction of Solid Waste with water

TCLP Extraction

SW-846 Method 1311

Zero Headspace Extraction

SW-846 Method 1311

Total Petroleum Hydrocarbons (gravimetric)

EPA Method 1664 (Hexane extraction, followed by treatment

with silica gel, gravimetric determination)

Method Detection Limit-1.9 mg/L

Bicarbonate alkalinity

SM 4500-CO2-D (17th edition)

Total Alkalinity

SM 2320B (titrimetric)

Chloride, Ion Chromatography

Drinking water, wastewater Groundwater, RCRA wastes

Method 300.0

SW-846 Method 9056

Specific Conductance

EPA Method 120.1

Ammonia

Нq

SM 4500-NH3-G 19th ed. Automated phenate

EPA Method 350.1

Nitrite, Ion Chromatography

Drinking water, wastewater

Method 300.0

Groundwater, RCRA wastes

SW-846 Method 9056

Nitrate, Ion Chromatography Drinking water, wastewater

SW-846 Method 9056

Method 300.0

Groundwater, RCRA wastes

EPA Method 150.1 (electrometric)

Phosphorous, Total

EPA Method 365.3

SM4500-P-F Automated Ascorbic Acid Reduction

Redox Potential of Water

ASTM Method D 1498

Sulfide in Aqueous Samples

EPA Method 376.2 - Methylene Blue Method

Sulfate, Ion Chromatography

Drinking water, wastewater Groundwater, RCRA wastes

Method 300.0 SW-846 Method 9056

Total Kjeldahl Nitrogen

SM 4500-Norg-C Semi-Micro Kjeldahl SM 4500-NH3-G Automated phenate

Methane Results:

0202825-01G

2.0 ug/L

0202825-02G

2.0 ug/L

Do values Not prient:

Reason-Inthis - Not loged in - ah

Atlantic Coast REPORT

Work Order # 02-02-825

03/13/02 16:16:29

aryland Environmental Svc

1ethane Results:

0202825-01G 2.0 ug/L

Received: 02/20/02

0202825-02G 2.0 ug/L

0202812 0202825

Maryland Environmental Service Chain of Custody for Elutriate Water

Project Name: Furnace Bay Groundwater Study

Sample Collector(s): Mike Rooney

Project #: 792-7827 Sub # 0322

Sample Purpose : Soils testing

Bottle	Sample	Se	mple	Number of	Notes
Number	Location	Date	Time	Number of Bottles	
551 22002	SS 1	2/20/02	9:36		
SS2 2 3002	553	' (10:00	1 +	
553 a200a	553		10:35		
554 23000	554		10:50		
555 2 2007	555	V	11:00	1	
				5	
-					
			-		
					
Chilled to 4 Degrees Cels	ius? I Ve	No.		Total Number of Bottles	
Chilled to 4 Degrees Cels	ius?Ye	No		Total Number of Bottles 5	

Analysis:

(1) Liter Amber glass unpreserved for : See attached

Relinquished By	Date	Time	Accepted By	Date	Time
Mila Boomy	2/20/20	13.40	Mer Fridge	2/20/00	13:40
Frige	H20/03	1445	Milde	720/02	1445
7			1/ / 1	7-5/3	2

* Note Run Ruplicate on sample # 55 22002

Analyses	methodology	TCLP Method	D3987
Sodium	EPA 200.7	X	Х
Potassium	EPA 200.7	X	
Iron	EPA 200.7	X	
Manganese	EPA 200.7	X	
Arsenic	EPA 200.8	X	
Cadmium	EPA 200.7	X	
Chromium	EPA 200.7	X	
Соррег	EPA 200.7	X	
Lead	EPA 200.8	X	
Zinc	EPA 200.7	X	
Nickel	EPA 200.7	X	
Selenium	EPA 200.7	X	
Nitrate-Nitrite-Nitrogen	EPA 353.2/300.0	X	
TKN	EPA 351.3	X	
Nitrate-nitrogen	EPA 300	X	
Total nitrogen		X	
Ammonia Nitrogen	SM 4500-NH3-E	X	
Chemical Oxygen Demand	SM 5220-D	X	X
Calcium	EPA 200.7	X	
Magnesium	EPA 200.7	X	
Bicarbonates	SM4500CO2-D	X	Х
Chloride	SM4500CL-F	X	
Sulfate	SM4500SO42-B	X	
Suflide	EPA 376.2	X	Х
Total petroleum hydrocarbons	EPA 418.1 modified	X	
Total Phosphorous	EPA 365.3	X	
Total Organic Carbon	SM5310-C	X	X
Alkalinity	SM 2320B	X	X
Dissolved Solids	EPA 160.1	X	
Carbon Dioxide	SM4500	×	Х
Ferrous Iron	SM 3500 Fe	X	
Dissolved oxygen			X
Specific conductance	EPA 120.1/SM2510B		Х
Oxidation Reduction Potential			Х
βН			Х
Methane	SM-6211	X	